

# **THE 1995 ARMED FORCES SEXUAL HARASSMENT SURVEY: STATISTICAL METHODOLOGY REPORT**

**Robert E. Mason, Jill A. Kavee, Sara C. Wheelless  
Research Triangle Institute**

**and**

**Barbara J. George, Richard A. Riemer, Timothy W. Elig  
Defense Manpower Data Center**

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13. ABSTRACT (Maximum 200 words)  This report provides statistical background information (sampling design, estimation procedures, and missing data compensation procedures) for the 1995 Status of the Armed Forces Surveys of sexual harassment. Three survey forms were used. Form A replicated the DoD-wide 1988 Survey of Sex Roles in the Armed Forces. Form B expanded and updated measures. Form C was created from parts of Forms A and B to assess the overlap of the incidence measures in the other forms. Each of the three survey populations included the worldwide distribution of active-duty Army, Navy, Marine Corps, Air Force, and Coast Guard personnel, with the exception of flag rank officers and personnel with less than approximately six months of service. The Form B and C survey populations also included members of the Reserve components in active-duty assignments in AGR/TARs programs. A non-proportional stratified random sample of 91,006 personnel were selected: 30,756 for Form A, 50,394 for Form B, and 9,856 for Form C. Data collection was by mail starting 15 February 1995. Usable surveys were returned by 47,255 Service members for a weighted response rate of 54%. Responses were weighted up to population totals, adjusting for differential sampling and response rates in demographically homogenous groups.				
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## 1. Introduction

This report describes the sampling design, estimation procedures, and missing data compensation procedures used for the 1995 Status of the Armed Forces Surveys (SAFS) of gender issues. This report is intended to provide statistical background information for the public use datasets (Edwards, Elig, Edwards, and Riemer, in preparation a, b, c) and the initial report of the survey results (Bastian, Lancaster, & Reyst, 1996).

The three surveys are referred to as the Form A, B, and C surveys. Each of the three survey populations included the worldwide distribution of active-duty Army, Navy, Marine Corps, Air Force, and Coast Guard personnel, with the exception of flag rank officers and personnel with less than approximately six months of service. The Form B and C survey populations also included members of the National Guard and Reserves in active-duty assignments in AGR/TARs programs. The report includes sample data set descriptions and descriptions of the response rates and other operational rates for each survey. A comparison of respondents and nonrespondents is provided using information from the Form B survey.

The main purposes of the survey were to assess:

- what elements of the active duty military population had unwanted, sex- or gender-related experiences;
- the context, location, and circumstances under which such experiences occurred;
- the extent to which these experiences were reported and, if reported, members' satisfaction with the complaint process and response;
- the extent to which those attempting to report harassment experienced reprisal;
- the amount of training on sexual harassment and members' assessment of the effectiveness of training received;
- service members' views of current policies designed to prevent, reduce, or eliminate sexual harassment, of leadership commitment, and of progress in reducing the incidence of sexual harassment.

The Form A survey, with 13,599 respondents, was a re-administration of the 1988 Survey of Sex Roles in the Active-Duty Military. The Form A survey was undertaken to provide a comparison of prevalence rates between 1988 and 1995. Form B was developed specifically for the 1995 administration and incorporated the most recent advances in understanding and measuring incidents. The Form B survey, with 28,296 respondents, provides the primary source of information for the 1995 surveys. Form C, with 5,360 respondents, was developed as a research tool to link the behavior lists on the other two forms.

Data collection for each of the surveys was by mail. Individuals in each sample initially received an introductory letter explaining the survey and soliciting cooperation. The letter was

followed by a package containing the questionnaire and instructions for completing and returning the information. The package was followed by a second letter thanking the individual for having returned the questionnaire and asking for its return. After specified times had elapsed, a second and a third package containing the questionnaire and instructions along with another letter stressing the importance of the survey was mailed to nonrespondents to the previous mailings.

As is often the case with mail surveys, response rates were low in comparison to more costly methods such as in-person interviews and telephone surveys. At the level of the population estimate, as opposed to unweighted frequency tabulations of the sample, the overall response rates associated with the data collection procedure employed for the surveys were  $50.9 \pm 1.4$  percent<sup>1</sup> for the Form A survey,  $54.7 \pm 0.9$  percent for the Form B survey, and  $57.9 \pm 1.2$  percent for the Form C survey. Response rates differed significantly depending on Service, paygrade, and race/ethnicity; this is discussed more fully in Section 5.

### **1.1 Summary Description of the Sampling Design**

A stratified random sampling design was used for each of the three surveys. Source information for constructing the sampling frame was taken from the October 1994 Active Duty Master File (ADMF) and the September 1994 Reserve Components Common Personnel Data System (RCCPDS). The ADMF and RCCPDS provided the information for constructing strata and for defining the key reporting domains that provided the basis for determining the sample size and allocation.

With one exception, stratum definitions were the same for each of the surveys:

- Service for the Form A survey: Army, Navy, Marine Corps, Air Force and Coast Guard. The Form B and C frames were stratified at six levels, adding AGR/TARs.
- Location: United States (US) vs. outside the United States (OVERSEAS). For these surveys US was defined to include all 50 states and the District of Columbia, whereas OVERSEAS included all other countries, United States territories, and Naval personnel aboard ship (even those homeported in the United States).
- Paygrade: E1 through E4, E5 through E9, WO1 through O3, and O4 through O6.
- Gender: men and women.
- Race/ethnicity: non-Hispanic White, non-Hispanic Black, Hispanic any race, and other.
- An unknown stratum: All individuals for whom one or more of the above stratum variable values were missing.

The details of the stratified design are provided in Section 2.3

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<sup>1</sup> Estimates in this report are typically accompanied by 95% confidence intervals,  $\pm 1.96$  \* standard error.

The total sample size and allocation for each of the three surveys were determined to satisfy precision constraints imposed on estimates of prevalence rates in key reporting domains. Reporting domains were defined by different combinations of demographic characteristics (most importantly gender, Service affiliations, and paygrade) to be the subgroups for which results would have to be reported with known accuracy. The prevalence rate can be thought of as any proportion to be estimated from a survey such as the proportion of persons who report incidents of unwanted sexual attention. The proportions were defined separately for each survey. The Form C survey, for example, was required to provide confidence interval half-widths not exceeding 0.02 for sample estimates of prevalence rates of 0.50 for each gender. For the Form A survey, maximum confidence interval half-widths were specified in the range from 0.02 to 0.06 for prevalence rates of 0.3 or 0.5 over a total of 55 reporting domains. For the Form B survey, the maximum confidence interval half-width values ranged from 0.02 to 0.10 for prevalence estimates of 0.3 or 0.5 defined for a total of 124 domains. The reporting domains used to determine the sample size and allocation of the Form B survey were defined similarly to those for Form A, with the addition of domains defined by the representation of women in different military occupational groups. The details of the precision requirements imposed on each of the surveys are presented in Section 2.2.3.

A formal mathematical procedure based on Karush-Kuhn-Tucker theory was used to determine the sample size and allocation. The procedure is described in Section 2.4. It involves developing equations to describe the variance of the sample estimates and the variable survey costs, then simultaneously solving the equations subject to the (inequality) precision requirements. The solution obtained was unique and was that allocation of the sample that jointly satisfied the precision requirements for the least cost.

The sample of individuals was selected with equal conditional probabilities given the stratum allocations. However, because the stratum allocations were not proportional to the stratum sizes, sample individuals were not selected with equal overall probabilities.

## **1.2 Summary Description of the Estimation Procedures**

In general, the procedures used to compute sample estimates of population parameters and their associated variances, including population totals, means, proportions, tests of hypotheses and regression relations, are derived from the probability structure that gives rise to the observations. The estimation procedures based on the SAFS sampling design are described in detail in Section 3.

Unbiased estimates of parameters described by linear statistics, such as population totals, are obtained by first multiplying the observed response variable values by the sampling weights. The sampling weights are the inverses of the probabilities with which each individual was selected into the sample. For the SAFS design (i.e., a stratified random sample), the sampling weights are simply the stratum sizes divided by the stratum allocations.

If the parameter of interest describes a reporting domain or subpopulation, then the product of the response variable value and the sampling weight is also multiplied by a domain indicator variable. The domain indicator variable takes on the value one or zero depending on

whether the individual sample member does or does not belong to the domain of interest. The products are then summed over all individuals within a stratum and over all strata.

For example, suppose the parameter to be estimated is the total number of incidents reported by female officers worldwide. The relevant response variable value in this case is the number of incidents reported by each person. The response variable value is multiplied by an indicator variable that takes on the value, one, if the sample person is female and an officer, and zero otherwise. The product thus formed is multiplied by the sampling weight for the sample person. The resulting product is computed for each sample person and then summed over all of the individuals in the sample.

Note that the parameter estimate takes the form of the sum of the individual stratum estimates. The variance is similarly computed as the sum of the stratum variances. For parameters estimated by linear statistics, the variance estimates take the form of stratum level sums of squared deviations of the weighted response variable values from the stratum means "adjusted" for the number of observations in the stratum. Because the sample was selected without replacement from within each stratum, the adjusted sums are multiplied by stratum level finite population corrections.

However, most of the parameter estimates of interest to the SAFS take the form of non-linear statistics. Examples include domain means and proportions where the denominator values are unknown and must be estimated from the sample data. The estimator takes the form of a ratio of random variables; that is, the ratio of the estimated numerator and denominator totals or counts. Ratio estimates, in general, are not unbiased and their variances cannot be expressed in closed form. The bias in a ratio estimate depends on the variance associated with the denominator total or count and can usually be ignored in samples having a large number of observations. Approximations must, however, be found for the variances.

The approximations commonly used take the form of Taylor series linearizations and pseudo-replication procedures such as those based on resampling methods. Section 3.2 describes variance approximations based on Taylor series linearizations for simple bivariate ratios. The estimators described in Section 3.2 are extended in Section 3.3 to estimators of multivariate regression relations.

### **1.3 Summary Description of the Missing Data Compensation Procedures**

Missing data (i.e., nonresponse) occurs whenever the values of a response variable and/or a domain indicator variable needed to compute a given estimate is missing or unknown. A distinction is made between unit nonresponse and item nonresponse, depending on whether an entire questionnaire is missing or a data item is missing from an otherwise usable questionnaire.

The missing data compensation procedures for the SAFS address only unit nonresponse. The procedures themselves take the form of weighting class adjustments. Weighting classes were constructed congruent with design strata unless fewer than 20 observations were contained in a stratum. Strata were collapsed to form weighting classes in those cases where fewer than 20

observations were obtained. Weighting classes constructed using collapsed strata were necessary for some of the strata defined by race/ethnicity.

Weighting class adjustments are computed by scaling the weights for respondents such that the sum of the weights over the respondents in a class equals the sum of the weights over all of the individuals in the sample that belong to the same class. The scaling or adjustment factors applied to the respondent weights are simply the quotient of the two sums; that is, the adjustment factor given a class is the sum of the weights over individuals in the sample divided by the sum of the weights over respondents.

Weighting class adjustments can also be viewed as projecting a straight line through the origin and the point defined by the estimated total using only respondents to the point of full response. This representation emphasizes the underlying assumption in making weighting class adjustments: for the adjustments to be successful in eliminating undercoverage biases, the average values of response variables are the same for respondents and nonrespondents in the same class. The veracity of the assumption for each weighting class was checked by computing the straight line projections for the respondent sets available after the second mailing and again after the third mailing and testing the slopes of the lines for significant differences. The idea here was that, if respondents and nonrespondents differed in some systematic way, then this fact would be evident in the form of differences between cumulative sets of respondents obtained at points late in the data collection period. None of the tests were statistically significant, indicating that the sample data provide no evidence that the slopes were different. This, in turn, suggests that the weighting class adjusted estimates are not significantly biased as judged by the differences between respondents available in the interim and in the final datasets.

The missing data compensation procedures and their evaluation are discussed in Section 4.





## 2. Sampling Design

This section of the report describes:

- the inferential requirements for the surveys, including the inferential population definition, key reporting domains or subpopulations defined within the overall population, and the precision requirements imposed on sample estimates of parameters describing the key domains;
- the construction and stratification of the sampling frame;
- the procedure followed to determine the sample size and allocation for each of the surveys; and
- selection of the samples.

A glossary (see Appendix F) is provided to help readers understand the technical terms used in this report. With respect to the terminology used in this and the following sections, a distinction is made between the terms *sample size* and *number of observations*. Sample size refers to the number of persons selected into the sample. Sample sizes are determined to provide a specified number of observations given the anticipated eligibility and response rates for the survey. The sample is the group of persons to whom a questionnaire is to be administered. Number of observations, on the other hand, refers to the number of persons eligible to participate in the surveys who returned a completed questionnaire.

A distinction is also made between the terms *strata* and *domains*. Stratification is a feature of the sampling design, used to control the distribution of the sample. Strata partition the inferential population in the mathematical sense. That is, each individual in the population is classified into only one stratum, and the set of all strata includes the entire population. By contrast, a single individual can simultaneously belong to one or more domains. The set of domains, as a consequence, does not partition the population and is itself arbitrary, depending largely on the interests of the investigators analyzing the data. *Key domains* are identified in advance of the survey to provide the basis for determining the sample size and allocation.

### 2.1 Overview of the Sampling Design

A stratified random sampling design was used for each of the Form A, B, and C surveys. Source information for constructing the sampling frame and to identify key domains consisted of a computer accessible file totaling 1,687,320 records containing information extracted from two DMDC person-level files: the October 1994 ADMF and the September RCCPDS. The stratum definitions are common across all three surveys<sup>2</sup>. Using the same set of stratum definitions allowed the selection of a single sample of approximately 91,000 individuals, large enough to accommodate the stratum-level allocations for all three surveys. The sample individuals selected were then assigned at random to a particular survey. Because data collection for the three

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<sup>2</sup> The Form A survey uses a subset of the Forms B and C strata.

surveys occurred during the same time period, this arrangement was instituted to reduce the potential reporting burden, particularly for individuals classified into the smaller strata who were also members of the more important reporting domains.

Sample persons were selected with equal conditional probabilities, given the stratum, and without replacement. Stratum level sample sizes were determined by variance constraints imposed on key parameter estimates of the proportion of persons belonging to specified domains who would report having experienced one or more of the behaviors defined in the survey as unwanted sexual attention. The total sample size for the Form A survey was 30,756, yielding 13,599 observations; the Form B sample size was 50,394, yielding 28,296 observations; the total sample size for the Form C survey was 9,856, yielding 5,360 observations.

## **2.2 Inferential Requirements**

The inferential requirements for the surveys are described in terms of

- a fully operational definition of the population of inferential interest (target population),
- key parameters to be used in developing the design, and
- the precision requirements for each survey, stated in terms of the maximum values of the variances to be associated with the sample estimates of the key parameters.

The population definition identifies the total of all individuals for whom conclusions are to be reached or about whom inferences are to be made based on the survey data. The definition generally includes a spatial and a temporal component.

Key parameters used as the basis for the design may be defined in terms of characteristics of the overall population, characteristics of subpopulations of special interest (key domains), tests of hypotheses (including standardized comparisons), and the relations that exist at population levels among specified observation variables. For these surveys, the key parameters were prevalence rates, defined as the proportion of persons belonging to specified domains who would report having experienced one or more of the behaviors defined in the survey as unwanted sexual attention. The prevalence rates used for design purposes were chosen by the investigators based on policy and programmatic considerations and on the resources available for undertaking the surveys.

The precision requirements for the surveys were defined in terms of the maximum confidence interval half-widths to be associated with a priori estimates of the specified prevalence rates in specified key domains.

### **2.2.1 Population Definition**

The population of inferential interest for the Form B and C surveys consisted of all military personnel below flag rank in the Army, Navy, Marine Corps, Air Force, and Coast Guard, including AGR/TARs program members of the National Guard and Reserves. The population of

inferential interest for the Form A survey was the same as that for the other two surveys with the exception that members of the National Guard and Reserve Components were excluded. The Form A survey was a readministration of the 1988 Survey of Sex Roles in the Active-Duty Military which did not include the AGR/TARs.

The surveys were worldwide in scope and included active-duty individuals below flag rank when selected into the sample: 1) who were members of a Service in the October 1994 ADMF *or* Reserve Components individuals who were members of an AGR/TAR program on active-duty in Service in the September 1994 RCCPDS, *and* 2) who were also in active-duty status on 4 April 1995. If not in active-duty on 4 April 1995, sampled persons were flagged as ineligible. Thus, the eligible population was approximately limited to members with at least six months service when surveyed.

### **2.2.2 Key Reporting Domains**

The factors used to define the key reporting domains for each of the surveys are listed in Table 1. An initial set of candidate domains was generated by considering various combinations of and crosses among the factors listed in the table. Because the domain sizes interact with the precision requirements imposed on the domain prevalence estimates to determine the overall sample size and allocation, several iterations were required to develop domain definitions consistent with the objectives of the three surveys and the resources available to carry out the surveys.

The factors listed in Table 1 are self-explanatory except for the occupational groupings. These groupings were constructed in two steps. First, the proportion of women in each military occupational specialty was tabulated and these proportions were divided into quartiles. Then the first quartile (those occupations with the fewest women) was further arbitrarily divided into four groups, identifying occupations ranging from those in which a woman might expect to be working only with men through those with an increasing, but still small, number of women.

The final set of domain definitions adopted for each of the surveys and the sizes of each domain are provided in Appendix B, Tables B-1 through B-3. A total of 55 domains were defined as the basis for the precision requirements imposed on the Form A survey (Table B-1), and 124 domains were defined for the Form B survey (Table B-2). For the Form C survey (Table B-3) two domains were defined, with precision requirements imposed only on the overall estimates of prevalence rates for males and females.

### **2.2.3 Precision Requirements**

In general, precision requirements are specified as the maximum values of the sampling variances to be associated with estimates of parameters describing key domains. Both the values of the parameters and the values of the variances are needed to complete the specification. The sampling variances, in general, are functions of the sample size, the distribution of the sample, population variances, and design constants. Because information about the values of population variances is typically lacking in advance of the survey, a convenient way to specify the

Table 1.  
*Factors Defining Key Reporting Domains*

Factor	Levels		
	Form A	Form B	Form C
Service	Army Navy Marine Corps Air Force Coast Guard	Army Navy Marine Corps Air Force Coast Guard AGR/TARs	none
Location	none	US OVERSEAS	none
Paygrade group	E1 to E3 E4 to E9 WO1 to WO5 and O1 to O3 O4 to O6	E1 to E3 E4 E5 and E6 E7 to E9 WO1 to WO5, O1 to O3 O4 to O6	none
Gender	male female	male female	male female
Race/ethnicity	non-Hispanic White non-Hispanic Black Hispanic any race Other	non-Hispanic White non-Hispanic Black Hispanic any race Other	none
Occupational grouping	none	First Quartile - low 1 First Quartile - low 2 First Quartile - low 3 First Quartile - low 4 Second Quartile Third Quartile Fourth Quartile	none

precision requirements is in terms of the sampling variances to be associated with estimates of domain proportions (i.e., estimates of the proportion of individuals belonging to specified domains who possess characteristics or attributes of particular interest). By using this convention, the (binomial) population variances are coincidentally specified with the specification of the proportions.

For these surveys, the parameters used for specifying the precision requirements are the proportions of individuals who report having experienced one or more of the behaviors defining uninvited and unwanted sexual attention. These behaviors are defined by Questions 11 and 12 on Forms A and C and Question 71 on Form B. A range of behaviors is considered, from offensive remarks and gestures to nonconsensual sex.

The parameter values used for the design are the prevalences listed in Appendix B in Tables B-1 through B-3. As is the case with the domain sizes, the values of the prevalence rates chosen to provide the basis for the precision requirements influence the size and cost of the surveys.

The maximum values of the variances to be associated with the sample estimates of the prevalence rates were, for these surveys, specified in the form of confidence interval half-widths. Both the cost implications and the objectives of the survey were considered in specifying these values. On the one hand, the intervals had to be small enough to provide an informative study. On the other hand, they could not be so restrictive as to be unaffordable. Tables B-1 through B-3 list the half-width intervals together with the domain definitions, domain sizes, and prevalence rates for the Form A through Form C surveys respectively.

### 2.3 Sampling Frame Construction and Stratification

A distinction is made between the *dimensions of stratification* and the *levels of stratification*. The stratification variables comprise the dimensions, and the values of the stratification variables comprise the levels.

Table 2.  
*Source Information Used For Stratification*

Dimension of Stratification	Levels of Stratification
Service	Army Navy Marine Corps Air Force Coast Guard
Component	Active AGR/TARs from a Reserve component AGR/TARs from a National Guard component
Location	US OVERSEAS
Paygrade	each enlisted grade: E1 to E9 each warrant officer grade: WO1 to WO5 each commissioned officer grade: O1 to O6
Gender	male female
Race/ethnicity	non-Hispanic White non-Hispanic Black Hispanic (any race) American Indian/Alaskan Native Asian/Pacific Islander Other

### 2.3.1 Preliminary Stratification

As a starting point, paygrades were combined to form the following groups: E1 to E3, E4, E5 and E6, E7 to E9, all warrant officers, O1 to O3, and O4 to O6. Using these groupings in place of individual paygrades, a candidate set of strata was constructed by simply crossing all of the levels in Table 2, yielding 7,056 potential strata.

The next step was to consider the minimum stratum size consistent with a total sample size of 40,000. The figure of 40,000 people each was the originally targeted total sample size for the Form A and Form B surveys. If unbiased variances for linear statistics are to be a design requirement, then a minimum of two observations is needed in any stratum. However, if a stratum is too small, then insisting on at least two observations from that stratum introduces an unequal weighting effect that acts to increase variances for no reason other than the stratum is simply too small. Even if only a few strata are too small, the cumulative unequal weighting effects can compromise any variance advantage associated with having stratified in the first place.

This consideration leads logically to defining "too small" in terms of a proportional allocation of the total sample. A proportional allocation of the sample cannot, by definition, introduce unequal weighting effects. Given a proportional allocation and a minimum requirement of two observations per stratum, the minimum stratum size is computed as,

$$\min\{N_h\} = \frac{2N}{n},$$

where,

$N_h$  = the size of the  $h$  - th stratum,

$N$  = the size of the population, and,

$n$  = the total size of the sample.

For  $N = 1,687,320$  and  $n = 40,000$ , a minimum stratum size of  $\min\{N_h\} = 85$  is indicated.

Next, the proportion of the total strata defined by all possible crosses that were below the minimum size of 85 was computed for each of the initial stratification variables. The stratification dimensions contributing a large proportion of deficient strata were considered candidates for having levels collapsed into other strata. The decisions about which strata to actually collapse were based on identifying the candidate stratification dimensions with consistent patterns of deficient strata and on a consideration of the relative importance of specific candidate stratification dimensions to the surveys. Thus, collapsing gender was not considered to be a viable option, despite the consistent dearth of women in most of the cross classified strata. On the other hand, the consistent pattern of too few warrant officers essentially everywhere resulted in their being collapsed. The military occupational groupings exhibited a consistent pattern of excluding females from one end of the distribution such that constructing strata at least as large as the minimum size is likely not possible without collapsing major divisions of the population, such

as Service. Consequently the occupational groupings were dropped altogether from the list of viable stratification variables (though this information was used in defining key reporting domains for the Form B survey).

### **2.3.2 Collapsing Strata**

After several iterations, a two-step scheme was adopted for collapsing strata. In the first step, selected levels within the Service, paygrade and race/ethnicity stratification dimensions were collapsed. Specifically,

- AGR/TARs were collapsed into a single level and treated as if it were a level of the Service dimension.
- Paygrades were collapsed into three levels: E1 - E4, E5 - E9, and WO1 - O6 (all commissioned and warrant officers combined).
- Finally, race/ethnicity categories were collapsed into four levels: non-Hispanic White, non-Hispanic Black, Hispanic (any race), and "Other" (American Indian/Alaskan Native, Asian/Pacific Islanders, and the original "Other" categories).

After completing this step, a large number of deficient strata remained. At the second step, selected levels of particular dimensions were collapsed only within a specified level of one or more of the others dimensions (as opposed to collapsing levels in a cross-classified sense). Specifically,

- US/OVERSEAS locations were combined within the Coast Guard and within the AGR/TARs.
- Race/ethnicity categories for females were collapsed into two levels: non-Hispanic White, and "other" (non-Hispanic Blacks, Hispanics, and the "other" level that was created in the first step).
- No race/ethnicity distinctions were made for Marine OVERSEAS female officers because there were so few of them.

### **2.3.3 Final Strata Definitions**

The final strata definitions are listed in Appendix B, Table B-4. For the Form B and C surveys, 180 strata were constructed, including an "unknown" stratum (stratum 180 in Table B-4) containing persons for whom one or more of the stratum dimensions was missing from the source information. For the Form A survey a total of 162 strata were constructed, excluding the 18 strata for members in AGR/TARs assignments from the National Guard and Reserves.

## **2.4 Sample Size and Allocation**

After the strata were constructed, analysis or reporting domains and their associated precision constraints were defined. The precision requirements of the Form A survey were set for



selected domains to control the precision of key comparisons between this survey and the 1988 Survey of Sex Roles in the Armed Forces. For the Form B survey, precision requirements were set for selected domains to allow in-depth analysis for the overall active-duty population and some depth of analysis for each Service. The Form C survey, designed as a research tool to link the behavior lists on the other two forms, had precision requirements set only on the overall gender domains.

More specifically, the Form A requirements were set to control the precision of comparisons with the 1988 survey for each gender, each gender in each Service, each gender in each race/ethnicity group (non-Hispanic White, non-Hispanic Black, Hispanic and Other), and paygrade groups E1 to E3, E4 to E9, and WO1 to O6 by gender within each Service.

The Form B precision requirements were set for domains that would facilitate analyses for males and females separately for the active strength personnel (i.e., active-duty personnel including AGR/TARs) by each level of the stratification variables (i.e., Service, location, paygrade groups, and race/ethnicity), and by selected crossings of these variables. Special attention was paid to allow for Service-level analyses by paygrade groups and race/ethnicity within Service, although with a lower level of precision than for the across Services analyses. Precision requirements could not be tightly set for analyses of AGR/TARs when considered as a separate group. Nor could precision requirements be as tightly set for the Hispanic and Other groups as they could be set for the non-Hispanic White and non-Hispanic Black groups.

Key parameters used as the basis for the design may be defined in terms of characteristics of the overall population, characteristics of subpopulations (i.e., domains), tests of hypothesis (including standardized comparisons), and the relations that exist among specified observation variables at population levels. For these surveys, key parameters were defined as the proportions of persons (prevalence rates) belonging to specified domains who would report having experienced one or more of the behaviors defined in the survey as unwanted sexual attention. Prevalence rates of 0.5 for females and 0.3 for males were used for the Form A and B surveys. A rate of 0.5 was used for both males and females for the Form C survey. The variance constraints imposed on the prevalence estimates were computed from confidence interval half-widths specified for the key domains.

#### **2.4.1 Cost Model**

Once the precision requirements were defined, the total sample size and its allocation to the design strata were determined such that the imposed variance constraints were satisfied for the least cost. To this end, equations were developed that describe the variable survey cost and the variances of sample estimates of the key reporting domains. The equations express the cost and the variances in terms of the key features of the sampling design (constants in the equations) and the stratum-level sample sizes (the unknowns in the equations). The allocation solutions are obtained by solving the equations simultaneously subject to the set of variance constraints. The allocation procedure was first described by Chromy (1987).

A cost model is generally developed by determining the per sampling unit cost of each of the activities to be accomplished during the survey. The list of activities, although subjective in

nature, must seek to be exhaustive if the model is to accurately describe or predict the actual cost of the survey. Once the activity list is compiled, the cost of each item is partitioned into coefficients associated with the salient features of the total design, including both the sampling and the data collection designs. For example, data collection costs may be different in different design strata. In the case of multistage and multiphase designs, the costs will depend on the stage and phase of sampling. Fixed costs (those that are not affected by changes in the number and allocation of sampling units) must be clearly separated from variable costs. Fixed costs disappear upon taking the derivatives of the cost equations and do not enter into the determination of the allocation solutions.

The set of survey activities can be categorized according to whether an activity is associated with:

- sampling frame construction and stratification,
- sample selection,
- instrument development,
- data collection,
- data editing,
- data processing, and/or
- analysis and reporting.

For one-stage stratified design surveys like that used in this project, the costs associated with sampling frame construction and stratification and the costs associated with instrument development do not depend on the sample size and allocation and are therefore fixed costs. Sample selection costs do increase as the sample size increases but only marginally (because the greater part of the sample selection cost depends on the size of the sampling frame rather than the size of the sample). For one-stage stratified design surveys where the sample is selected from computer accessible files, most of the cost is incurred in the development of software to access the files and select the sample – an activity with fixed costs. Once the software is developed, the cost differential between a small and a large sample is easily ignored unless the sample size differential is extraordinarily large. Similarly, although analysis and reporting costs depend to some degree on the sample size, the difference is easily ignored unless the analysis procedures require that excessive attention be paid to the individual sample records. Otherwise, the major component of the analysis cost derives from setting up software to do tasks such as generate tables, run regressions, and plot graphs. Thus, analysis and reporting costs are also mainly fixed costs.

For the 1995 SAFS or gender issues surveys, the expected variable survey costs depended almost entirely on the planned data collection, editing and processing activities. Additionally, per unit data collection costs would be positively related to the expected response rates in the

different design strata. That is, follow-up mailings were planned for nonrespondents at specified times over the total data collection period. Data collection costs were consequently expected to be higher in those strata that would experience lower initial response rates than in those expected to have higher initial response rates. Conversely, data editing and processing costs would be higher in those strata that experience higher rather than lower response rates because of the larger volume of material to be handled.

These considerations suggested a cost model of the following form:

$$C = \sum_h n_h \bar{C}_h$$

$$= \sum_h n_h \frac{(C_{1,h} + (1 - R_{1,h})C_{2,h} + (R_{1,h} + R_{2,h})C_{3,h})}{(R_{1,h} + R_{2,h})},$$

where the subscript  $h$  denotes the design strata and,

$n_h$  = the sample allocation made to the  $h$ -th stratum,

$C_{1,h}$  = the cost of the initial mailing (to an individual classified into the  $h$ -th stratum),

$C_{2,h}$  = the cost of the follow-up mailings,

$C_{3,h}$  = the cost of editing and processing a returned package,

$R_{1,h}$  = the expected response rate to the first mailing,

$R_{2,h}$  = the expected response rate to the follow-up mailings.

In this expression the overall expected cost coefficient for individuals classified into the  $h$ -th stratum is the quantity

$$\bar{C}_h = \frac{(C_{1,h} + (1 - R_{1,h})C_{2,h} + (R_{1,h} + R_{2,h})C_{3,h})}{(R_{1,h} + R_{2,h})},$$

and the overall expected response rate is

$$\bar{R}_h = R_{1,h} + R_{2,h}.$$

The data collection, editing and processing activities were to be carried out by a contractor different from that used in designing the sample. Consequently, to preserve the confidential nature of the cost information, the dollar values for the  $C$ -coefficients were based on ranges provided by DMDC. In this respect, the absolute dollar values of the coefficients were less important for determining the sample allocation than they were for determining the operational

survey costs. For the purpose of allocating the sample, relative costs sufficed and the lower endpoints of the ranges were chosen. The cost coefficients used for design purposes are:

Cost Coefficient	Costs for	Forms A & B	Form C
$C_{1,h}$	Initial mailout	\$2.35	\$2.21
$C_{2,h}$	Follow-up mailouts	\$1.45	\$1.31
$C_{3,h}$	Completion	\$2.27	\$2.11

The Form C costs were lower because the form is 12 pages, compared to the 16 pages each for Forms A and B.

The  $C_1$ -coefficient was intended to include costs associated with:

- reproducing and mailing the notification letter,
- reproducing and mailing the first wave (letter, questionnaire, and return envelope), and
- reproducing and mailing the reminder/thank you letter.

The  $C_2$  coefficient was intended to include costs associated with reproducing and mailing the packages for follow-up waves (cover letters, questionnaires, and return envelopes):

- receipt control and reporting,
- scan coding the questionnaires,
- keying open ended responses,
- transcribing comment sheets,
- constructing sample data files, and
- quality assurance procedures.

Response rate information was available from previous surveys. However, the information was in terms of observed rates rather than expected values (i.e., the corresponding population quantities and associated sampling variances). We choose, therefore, to truncate the more extreme response rates. The distribution of expected response rates by design strata (i.e., the values  $\bar{R}_h$ , assumed for purposes of determining the sample allocation) is given in Appendix

B, Table B-5, along with the distribution of the per unit stratum level cost coefficients,  $\bar{C}_h$ . The mailing level response rates for the initial mailout and the follow-up mailouts ( $R_{1,h}$  and  $R_{2,h}$ , respectively) were apportioned as two-thirds and one-third of the stratum-level rates,  $\bar{R}_h$ . That is, it was assumed that two-thirds of the responses in any stratum would come from the initial mailout and that the remainder would come from follow-up mailouts.

#### 2.4.2 Variance Model

In this section we denote the reporting domains using the subscript  $d$ . Define the indicator variables,

$$\delta_{d,h,i} = 1 \quad \text{if the } i\text{-th individual in the } h\text{-th stratum belongs to the } d\text{-th domain,}$$

$$= 0 \quad \text{otherwise,}$$

$$\delta_{h,i} = 1 \quad \text{if the } i\text{-th individual in the } h\text{-th stratum reports having experienced at least one of the behaviors defining unwanted sexual attention,}$$

$$= 0 \quad \text{otherwise.}$$

Then the total members of the domain who report having experienced at least one of the behaviors is the quantity,

$$N_d P_d = \sum_h \sum_{i=1}^{N_h} (\delta_{h,i}) (\delta_{d,h,i}),$$

where  $i = 1, 2, \dots, N_h$  denotes the individuals classified into the  $h$ -th stratum. At the population level, the relative number of individuals in the domain who report having experienced at least one of the behaviors is,

$$P_d = \sum_h \frac{N_h}{N_d} P_{d,h},$$

where,

$$P_{d,h} = \left( \frac{1}{N_h} \right) \sum_{i=1}^{N_h} (\delta_{h,i}) (\delta_{d,h,i}).$$

Denote the sample estimate of the relative domain size by,

$$\hat{P}_d = \sum_h \frac{N_h}{N_d} \hat{P}_{d,h},$$

with variance,

$$Var\{\hat{P}_d\} = \sum_h \left( \frac{N_h}{N_d} \right)^2 Var\{\hat{P}_{d,h}\},$$

where,

$$Var\{\hat{P}_{d,h}\} = \left( \frac{N_h - n_h}{n_h N_h} \right) P_{d,h} (1 - P_{d,h}).$$

The variance constraints take the form,

$$Var\{\hat{P}_{d,h}\} \leq K_d = \left( \frac{CI\{\hat{P}_d\}}{1.96} \right)^2$$

where the values  $K_d$  are chosen by the investigator. Specifically,

$$CI\{\hat{P}_d\} = 1.96 \sqrt{Var\{\hat{P}_d\}}$$

are the confidence interval half-widths listed in Appendix B Tables B-1, B-2, and B-3, under the column heading "Precision Constraint."

### 2.4.3 Allocation Solutions for Each Survey

The allocation solutions are obtained by minimizing the objective function,

$$O(n_h, \lambda_d) = C + \sum_d \lambda_d \left( Var\{\hat{P}_d\} - K_d \right).$$

The form of the objective function is, of course, design specific. For these surveys (employing stratified random sampling) the objective function is given by,

$$O(n_h, \lambda_d) = \sum_h n_h \bar{C}_h + \left( \sum_d \lambda_d \sum_h \left( \frac{N_h}{N} \right)^2 \left( \frac{N_h - n_h}{n_h N_h} \right) P_{d,h} (1 - P_{d,h}) - K_d \right).$$

The values  $\lambda_d$  are generalized Lagrange multipliers, one for each of the imposed variance constraints.

Taking the derivatives  $\frac{\partial O(n_h, \lambda_d)}{\partial(n_h)}$  and equating to zero yields equations of the form,

$$\frac{\partial(C)}{\partial(n_h)} = -\sum_d \lambda_d \frac{\partial(Var\{\hat{P}_d\})}{\partial(n_h)} \quad [2-1]$$

These equations are solved numerically to obtain the solutions  $n_h^*$ . At the points  $n_h^*$  there exist values of the Lagrange multipliers  $\lambda_d^*$  such that equation [2-1] holds and additionally,

$$Var\{\hat{P}_d\}\Big|_{n_h^*} \leq K_d, \quad [2-2]$$

$$\lambda_d^* \geq 0 \quad [2-3]$$

$$\lambda_d^* (Var\{\hat{P}_d\}\Big|_{n_h^*} - K_d) = 0 \quad [2-4]$$

Equations [2-1] through [2-4] are the Kuhn-Tucker necessary conditions.

For these surveys the solutions took the form,

$$n_h^* = \sqrt{\frac{\sum_d \lambda_d^* \left(\frac{N_h}{N}\right)^2 P_{d,h} (1 - P_{d,h})}{\bar{C}_h}}$$

and were found using an iterative numerical procedure. If the initial values of the Lagrange multipliers used to start the procedure are set to

$$\sqrt{\lambda_d} = \frac{\sum_h \frac{N_h}{N} \left( \sqrt{P_{d,h} (1 - P_{d,h})} \right) (\sqrt{\bar{C}_h})}{K_d},$$

then a comparison of the initial and final values of the Lagrange multipliers will identify those variance constraints that are driving the solutions and, by implication, the variable survey costs. Those constraints that are driving the costs will have final Lagrange multipliers nearly equal to these initial values, giving ratios close to one. Often a small relaxation of one or more of the

identified constraints can produce impressive reductions in the cost of the survey. Constraints that are satisfied coincidentally with other constraints will have final Lagrange multipliers equal to zero.

The allocation solutions obtained are listed in Appendix B Table B-6. The allocation solutions are expressed in terms of the number of observations needed to (jointly) satisfy the variance constraints. The sample size to be selected from each stratum is obtained by inflating these numbers as necessary to allow for nonresponse and other operational considerations.

#### **2.4.4 Expected Performance of the Samples**

The precision requirements listed in Tables B-1, B-2, and B-3, Appendix B, were determined over several iterations. The initially specified requirements proved too restrictive to be practical. At each iteration, those variance constraints that were the major determinants of cost were identified and progressively relaxed until a set of constraints was developed that would provide both an informative and an affordable study.

Those constraints that were the major determinants of the final allocation solutions are listed in Tables B-7, B-8, and B-9, Appendix B, for each of the surveys. The constraints for Form A and Form B that were the most important determinants of the allocation solutions tend to be associated with domains defined as second-order interactions (i.e., cross classifications of three domain variables, for example, domain number 87 for the Form B survey, consisting of junior grade female officers in the Coast Guard). This result is not surprising in that these constraints were imposed on small subdivisions of the total population. By contrast (except for the Form C survey, which only has two constraints, both main effects) all of the main effect constraints (i.e., domains defined by a single variable) have Lagrange multiplier ratios of zero, indicating that the constraints were coincidentally satisfied with the imposition of other constraints. In the case of the Form C survey, only two main effect constraints were imposed, on males and females. Because the stratification scheme partitions the population by gender, the Form C allocation was totally determined by these two constraints (as evidenced by the Lagrange multiplier ratios of 100% in Table B-9).

Because the imposed constraints are inequality constraints, the average performance of the sample tends to be better (i.e., tends to have smaller variances) than is suggested by the constraints themselves. Comparison of the columns headed "Precision Constraint" in Tables B-1 and B-2 with the columns headed "Expected Precision" in Tables B-7 and B-8 shows that, except for those domains with large Lagrange multiplier ratios, the expected values of the confidence interval half-widths are less than the imposed values.

Tables B-7, B-8, and B-9 also show the design effects associated with the prevalence estimates for each of the domains. The design effects listed in the tables show the relative efficiency of the design for each of the domain estimates. The design effect is computed as the ratio of the sampling variance given the design (including the sample allocation) and the variance that would be obtained using a simple random sampling design with the same number of observations. Components of the design effect include a stratification effect, a finite population effect due to sampling without replacement, and an unequal weighting effect due to the



disproportionate sample allocation. By far the most important of these component effects is the unequal weighting effect, which acts to increase the variances relative to those that would be obtained with a simple random sample of the same size.

Design effects judged to be excessively large provide some guidance for modifying either the design strata or the domain constraints or both. For example, the prevalence estimate for domain number 9 in the Form B survey, consisting of the Coast Guard, has an associated design effect greater than seven. The efficiency of the design for this main effect constraint could perhaps be improved in future surveys by removing racially defined strata, as was done for the female Marine Corps stationed overseas, and collapsing paygrade strata. Alternately, or in addition, the variance constraints imposed on the Coast Guard higher-order interactions could be relaxed.

#### **2.4.5 Combined and Revised Allocation for Each Survey**

The Kuhn-Tucker solution provides an optimal solution for the number of observations required to meet the precision constraints. Sample sizes are then computed to provide, in expectation, the numbers of observations specified by the sample allocation. Upward adjustments are needed to compensate for the expected nonresponse in the different stratum cells, and to compensate for the expected unavailability of address information in some strata. Also, because the minimum stratum size computed at the outset (see Section 2.3.1) was not revised following revisions made to the overall sample size target (which would have involved recollapsing the strata and redefining the key domains), adjustments were needed in those strata which proved too small to support the allocation of the total sample. In these cases the total number of persons in the strata was selected into the sample and divided among the three surveys in the same proportions as the allocation solutions.

The stratum-level sample sizes for each of the surveys and in total are listed in Table B-10, Appendix B.

#### **2.5 Sample Selection**

The final sample size for the three surveys totaled 91,006, with individual sample sizes of 30,756 for the Form A survey, 50,394 for the Form B survey, and 9,856 for the Form C survey. The total sample size, distributed as shown in the column headed "Total" in Table B-10, Appendix B, was selected with equal conditional probabilities, given the stratum, and without replacement, from person-level records contained in the October 1994 ADMF and the September 1994 RCCPDS. The sample was selected by DMDC, using a stratum-level lookup table that mapped the relevant variables in the source information records into the proper stratum. Following selection of the total sample, individual records were randomly allocated to each of the surveys using the survey-level sample sizes given in Table B-10. The stratum-level sample size information was also provided in the lookup file.

The steps in the sample selection procedure were as follows:

- Classify each record in the source files into the appropriate stratum using the lookup table.
- Sort the resulting file by the stratum identifiers.
- Generate seven digit random numbers in the interval  $[0, 1]$  and associate a random number with each of the records in a stratum. The use of seven digits in the random numbers allows with a high probability that each number will be unique.
- Put the file in random order by sorting the records by their associated random numbers.
- Denote the stratum-level sample sizes in Table B-10 by  $n_{A,h}$ ,  $n_{B,h}$ , and  $n_{C,h}$  with the first subscript denoting the survey Form and the subscript  $h = 1, 2, \dots, 180$  denoting the strata. Then, because the records have been placed in random order, the first  $n_{A,h}$  records comprise the sample from the  $h$ -th stratum for the Form A survey, the next  $n_{B,h}$  records comprise the sample from the  $h$ -th stratum for the Form B survey, and the next  $n_{C,h}$  records comprise the sample from the  $h$ -th stratum for the Form C survey.



### 3. Estimation Procedures

Procedures for estimating population totals, means, proportions, and regression relations and their associated variances are presented in this section. The estimation procedures are derived from the sampling design described in the previous section. Modifications made to the design-based estimation procedures to compensate for missing data are presented in Section 4.

The sampling design described in Section 2 provides unbiased estimates of parameters estimated by linear statistics and their associated variances. Given the design, examples of parameters estimated by linear statistics include population totals, means and proportions, and some subpopulation or domain means and proportions. Other subpopulation or domain means and proportions are estimated by non-linear statistics. The distinction is based on whether the denominators of the domain means and proportions are known, or are unknown and need to be estimated from the sample.

For example, consider the proportion of women who report having experienced one or more incidents of unwanted sexual attention. The denominator (the total number of women in the population) is a known quantity. The numerator, the total number of women who report having experienced unwanted sexual attention, is estimated from the sample. The proportion is therefore estimated by a linear statistic. In contrast, consider a similar proportion defined for some domain of women identified by individual responses to one or more questionnaire items, say the proportion of women who experienced unwanted sexual attention who did not report it to authorities. In this case the denominator total, the number of women in the population who experienced unwanted sexual attention, is unknown and must be estimated from the sample along with the numerator. The estimator as a result is a non-linear statistic (i.e., a ratio of random variables).

In the case of regression relations, both the *dependent* or *criterion* variables and the *independent* or *explanatory* variables are obtained from the sample. Thus, in general, regression coefficients in a finite population context are estimated by non-linear statistics. An example of a regression relation might be the association between the average number of reported incidents and the age and rank of the individuals.

The design-based estimation procedures are described in the following subsections with separate subsections for linear, ratio, and regression estimates. Each subsection begins with the definition of the relevant parameters. The definitions are followed by a description of the procedure for estimating the parameters and their sampling variances. Notation is developed as needed in the context of the presentation.

#### 3.1 Linear Statistics and Associated Variances

**Definitions:** Units in the population (i.e., persons in the active-duty military) are identified by the subscript  $g = 1, 2, \dots, N$ , the population being comprised of a total of  $N$  units. Response variable values are typically questionnaire items or items of information about individuals available in the source information used to construct the sampling frame; response variable values associated with the  $g$ -th unit in the population are denoted using  $\{x_g, y_g, \dots, z_g\}$ .

The population total of the response variables  $y_g$  is defined as the quantity

$$T_y = \sum_{g=1}^N y_g ,$$

and the population mean or average as the quantity

$$A_y = \frac{1}{N} \sum_{g=1}^N y_g .$$

Sample estimates of these quantities are denoted by  $\hat{T}_y$  and  $\hat{A}_y$  .

Domain totals and domain means are defined by the quantities,

$$T_y = \sum_{g=1}^N \delta_{d,g} y_g ,$$

$$A_{d,y} = \frac{T_{d,y}}{N_d} , \quad [3-1]$$

where the subscript,  $d$  , denotes a particular domain of interest, and,

$$\delta_{d,g} = 1, \text{ if the } g\text{-th unit in the population belongs to the } d\text{-th domain,}$$

$$= 0, \text{ otherwise.}$$

For example, the  $d$ -subscript might identify women, implying  $\delta_{d,g} = 1$  if the person identified by the  $g$ -subscript is female and zero otherwise. If the response variable value  $y_g$  is the number of incidents reported by the  $g$ -th individual, then the sum of the products  $\delta_{d,g} \times y_g$  is the total number of incidents reported by women.

In particular, if  $y_g = 1$  for all values of the  $g$ -subscript, then the sum of the products  $\delta_{d,g} \times y_g$  is the number of individuals that belong to the  $d$ -th domain, denoted by  $N_d$ . Continuing the example in the previous paragraph,  $N_d$  is the total number of women in the military.

Also  $y_g$  may be categorical, implying  $y_g = 1$  if the  $g$ -th unit in the population possesses some attribute of interest, and  $y_g = 0$  otherwise. In this case equation [3-1] defines a proportion which can be denoted using

$$P_{d,y} = \frac{N_{d,y}}{N_d} .$$

to distinguish it from a domain mean  $A_{d,y}$ . Continuing the example, define  $y_g = 1$  if the  $g$ -th unit in the population reports at least one incident of unwanted sexual attention. Then the sum of the products  $\delta_{d,g} \times y_g$  is the number of women who report at least one incident, providing the numerator of the proportion,  $P_{d,y}$ .

**Estimation:** In what follows, strata are denoted by the subscript  $h = 1, 2, \dots, H$ , where  $H = 180$  for the Form B and C surveys, and  $H = 162$  for the Form A survey. As indicated previously, the stratum definitions are identical for each of the surveys except that AGR/TARs are omitted from the Form A survey.

An estimated total is computed as the sum of the estimated stratum-level totals. Notationally,

$$\hat{T}_{d,y} = \sum_h \hat{T}_{d,y,h} . \quad [3-2]$$

For these surveys, sample individuals from the same stratum were selected with equal probability, implying that the stratum-level estimates are the quantities

$$\hat{T}_{d,y,h} = \frac{N_h}{n_h} \sum_{i=1}^{n_h} \delta_{d,h,i} y_{h,i} = \frac{N_h}{n_h} t_{d,y,h} . \quad [3-3]$$

In this expression, the individuals selected into the sample are identified using the subscript  $i = 1, 2, \dots, n_h$ , where  $n_h$  is the sample size for the  $h$ -th stratum.  $N_h$  is the total number of individuals classified into the  $h$ -th stratum (i.e., the stratum size). The quotients  $N_h \div n_h$  are the sampling weights for individuals classified into the  $h$ -th stratum. Finally, the sample total,

$$t_{d,y,h} = \sum_{i=1}^{n_h} \delta_{d,h,i} y_{h,i} ,$$

is the sum of the response variable values over the sampled individuals in the stratum who are members of the domain.

The sample sizes  $n_h$  are different for each survey, having been computed based on different precision requirements. The  $n_h$  and  $N_h$  values for each of Forms A, B, and C are listed in Table B-10 in Appendix B.

Because the samples were selected independently from each stratum, the stratum-level variances are additive. Hence, from equation [3-2],

$$Var\{\hat{T}_{d,y}\} = Var\left\{\sum_h \hat{T}_{d,y,h}\right\} = \sum_h Var\{\hat{T}_{d,y,h}\} .$$

Because the samples were selected with equal probability and without replacement given the stratum, we have for the estimated variance of the estimated stratum totals given in equation [3-3],

$$\hat{Var}\{\hat{T}_{d,y,h}\} = \hat{Var}\left\{\frac{N_h}{n_h} \sum_{i=1}^{n_h} \delta_{d,h,i} y_{h,i}\right\} = \frac{N_h(N_h - n_h)}{n_h(n_h - 1)} \left( \sum_{i=1}^{n_h} \delta_{d,h,i} y_{h,i}^2 - \frac{t_{d,y,h}^2}{n_h} \right). \quad [3-4]$$

The derivations of the above equations can be found in most sampling texts. Equation [3-4] can be found in Cochran (1977), Section 5A.14, page 143, except that he uses a  $j$ -subscript to denote a domain of interest and the symbol,  $y_{h,i,j}$ , in place of the product,  $\delta_{d,h,i} \times y_{h,i}$ .

Given that the denominator quantity is known, then an estimated domain mean is simply

$$\hat{A}_{d,y} = \frac{1}{N_d} \hat{T}_{d,y},$$

with the associated variance estimate,

$$\hat{Var}\{\hat{A}_{d,y}\} = \left(\frac{1}{N_d}\right)^2 \hat{Var}\{\hat{T}_{d,y}\}.$$

**Remark:** An alternate form of equation [3-4] simplifies the presentation of the variance estimates for non-linear statistics presented in the next two subsections. Equation [3-4] uses the person-level quantities  $\delta_{d,h,i} \times y_{h,i}$  to compute the variance estimate. Alternately, the variances can be computed using the person-level quantities,

$$\hat{T}_{d,y,h,i} = \frac{N_h}{n_h} \delta_{d,h,i} y_{h,i}. \quad [3-5]$$

These quantities can be thought of as the person-level contributions to the estimated population total for the  $h$ -th stratum which can be equivalently re-written as,

$$\hat{T}_{d,y,h} = \sum_{i=1}^{n_h} \hat{T}_{d,y,h,i} \quad [3-6]$$

(see equation [3-3]).

The alternate form of the stratum-level variance replaces the term in parentheses in equation [3-4] with the sum of the squared differences between the person-level contributions in equation [3-5] and their average (i.e., the estimated stratum total) in equation [3-6]. Note that the sum in question is  $(N_h \div n_h)^2$  times the term it replaces. Hence, the alternate form of the variance is,

$$\hat{Var}\{\hat{T}_{d,y,h}\} = \left(\frac{N_h - n_h}{N_h}\right) \left(\frac{n_h}{n_h - 1}\right) \sum_{i=1}^{n_h} (\hat{T}_{d,y,h,i} - \hat{T}_{d,y,h})^2. \quad [3-7]$$

Equation [3-7] rather than equation [3-4] is used in the following discussion.

### 3.2 Ratio Estimates and Associated Variances

Definitions: If both the numerator and denominator quantities are estimates, that is, if

$$\hat{A}_{d,y} = \frac{\hat{T}_{d,y}}{\hat{N}_d}, \quad [3-8]$$

then, because both the numerator and denominator are random variables, the estimator is a non-linear statistic. Non-linear statistics in general are not unbiased and variance estimates are not available in closed form (i.e., they can only be approximated by success approximations).

The bias potential depends on the variability associated with the denominator total. If a large number of observations is available for estimating the denominator, the bias potential can usually be safely ignored. Cochran (op. cit., page 166) suggests that the bias properties of a combined ratio estimate relative to their standard errors are negligible provided that the coefficient of variation of the denominator per unit mean<sup>3</sup> is less than 10 percent. However, for narrowly defined domains with samples disproportionately allocated to a large number of strata, the standard error of the denominator can be quite large. In selecting numerator quantities for reporting purposes, the variance of the denominator estimate should be routinely assessed, particularly when the denominator total is estimated using information from strata that receive a relatively small sample allocation.

Variance approximations for non-linear statistics are typically based on Taylor series linearizations or on re-sampling (pseudo-randomization) procedures such as those based on random groups. Wolter (1985) describes in detail most, if not all, of the procedures commonly used. We recommend using first order Taylor series linearizations as described in Appendix A (see also Wolter, *ibid.*, Chapter 6).

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<sup>3</sup> Note that equation [3-8] can be equivalently written as

$$\hat{A}_{d,y} = \frac{\hat{T}_{d,y} / N}{\hat{N}_d / N}.$$

Cochran's result is stated in terms of the standard error of  $\hat{N}_d / N$  and the coefficient of variation of the corresponding population parameter.



Estimation: The unknown denominator total  $N_d$  is estimated using the equations for population totals described in the previous section by setting  $y_{h,i} = 1$  for all values of the  $h$ - and  $i$ -subscripts. That is

$$\hat{N}_d = \sum_h \hat{N}_{d,h} = \sum_h \frac{N_h}{n_h} \sum_{i=1}^{n_h} \delta_{d,h,i} = \sum_h \frac{N_h}{n_h} n_{d,h} , \quad [3-9]$$

is computed and used in equation [3-8]. Equation [3-9] can be equivalently written as

$$\hat{N}_d = \sum_h \sum_{i=1}^{n_h} \frac{N_h}{n_h} \delta_{d,h,i} ,$$

which provides a more direct interpretation of the estimate  $\hat{N}_d$  as the sum of the sampling weights over all of the individuals that belong to the domain. For example, the sum of the sampling weights of persons who report that they plan to remain in the Service is the sample estimate of the total persons planning this action.

Equation [3-9] itself defines a linear statistic. The non-linearity problem arises in association with using the estimate  $\hat{N}_d$  in the denominator of the estimated population mean  $\hat{A}_{d,y}$  as described in equation [3-8]. The approximate variance of the estimate given in equation [3-8] is obtained by first computing the linearized variables<sup>4</sup>,

$$z_{d,h,i} = \delta_{d,h,i} (y_{h,i} - \hat{A}_{d,y})$$

and using these in place of the products  $\delta_{d,h,i} \times y_{h,i}$  in equation [3-5] to compute the variances  $\hat{V}ar\{\hat{T}_{d,z,h}\}$ . That is, first compute the variances,

$$\hat{V}ar\{\hat{T}_{d,z,h}\} = \left( \frac{N_h - n_h}{N_h} \right) \left( \frac{n_h}{n_h - 1} \right) \sum_{i=1}^{n_h} \left( \hat{T}_{d,z,h,i} - \hat{T}_{d,z,h} \right)^2 , \quad [3-10]$$

where,

$$\hat{T}_{d,z,h,i} = \frac{N_h}{n_h} z_{d,h,i} ,$$

$$\hat{T}_{d,z,h} = \frac{1}{n_h} \sum_{i=1}^{n_h} \hat{T}_{d,z,h,i} .$$

Equation [3-10] is not, however, the variance sought (which is the variance of the domain mean), rather an intermediate step in the calculations. To complete the calculation the variances of the

<sup>4</sup> The development of the linearized variable is described in Appendix C.

linearized variables are summed over the strata and divided by the square of the estimated denominator quantity. Notationally,

$$\hat{Var}\{\hat{A}_{d,y}\} \approx \left(\frac{1}{\hat{N}_d}\right)^2 \sum_h \hat{Var}\{\hat{T}_{d,z,h}\}. \quad [3-11]$$

### 3.3 Regression Relations

**Definitions:** Estimates of regression coefficients and their associated variance-covariance matrix are obtained using a multivariate extension of the estimators described in Section 3.2. In a finite population context, a regression analysis assesses the ability of  $p$ -element vectors of response variable values, denoted by  $\underline{x}_g$ , to explain the values of another set of response variable values, denoted by  $y_g$ . As previously, the  $g$ -subscript denotes individuals in the population.

There is no inherent difference between the response variable values that are chosen to comprise the vectors of explanatory variables,  $\underline{x}_g$ , and those designated as the criterion variables,  $y_g$ . Both arise coincidentally in association with the  $g$ -th individual in the population. The distinction arises merely in the context of a given analysis.

For example, the association between incidents of unwanted sexual attention and other factors can be expressed using a regression relation. The survey data provide observations of the number of incidents,  $y_g$ , and the other factors  $\underline{x}_g$  for those values of the  $g$ -subscript selected into the sample. Both the  $y_g$  and the  $\underline{x}_g$  values are random variables subject to the same sources of variation. Hence the problem of estimating the regression coefficients and their associated variance-covariance matrix is a non-linear problem. The situation is contrasted with that occurring in experimental situations where the  $\underline{x}_g$  values are typically fixed by the investigator and the estimated regression coefficients are linear statistics.

In a finite population context, regression coefficients can be defined as follows. Consider the function of observation variables defined by

$$\theta_g = y_g - \sum_{l=1}^p x_{g,l} \beta_l, \quad g = 1, 2, \dots, N.$$

The population mean and variance of the function  $\theta_g$  are, by definition, the quantities

$$\begin{aligned} A_\theta &= \frac{1}{N} \sum_{g=1}^N \theta_g = A_y - \sum_{l=1}^p A_{x_l} \beta_l, \\ V_\theta &= \frac{1}{N} \sum_{g=1}^N (\theta_g - A_\theta)^2 = \frac{1}{N} \sum_{g=1}^N \left( \left( y_g - \sum_{l=1}^p x_{g,l} \beta_l \right) - \left( A_y - \sum_{l=1}^p A_{x_l} \beta_l \right) \right)^2. \end{aligned} \quad [3-12]$$

Equation [3-12] holds for any choice of the regression coefficients  $\beta_l$ . Reasonable choices are those values of  $\beta_l$  that minimize the variance  $V_\theta$ . With this choice, the regression coefficients are defined at population levels so as to minimize the ordinary least squares criterion. That is,

$$\underline{\beta} = V_{\underline{x}'\underline{x}}^{-1} V_{\underline{x}'y} . \quad [3-13]$$

In this expression,  $\underline{\beta}$  is a column vector with  $p$  elements.  $V_{\underline{x}'\underline{x}}^{-1}$  is a  $p \times p$  square matrix with diagonal elements

$$V_{x_l x_l} = \frac{1}{N} \sum_{g=1}^N (x_{g,l} - A_{x_l})^2 ,$$

which are the population variances of the explanatory variables, and off-diagonal elements

$$V_{x_l x_{l'}} = \frac{1}{N} \sum_{g=1}^N (x_{g,l} - A_{x_l})(x_{g,l'} - A_{x_{l'}}), \quad l \neq l' ,$$

which are the explanatory variable covariances.  $V_{\underline{x}'y}$  is a  $p$ -element column vector containing the covariances between the criterion variable and the explanatory variables. That is,

$$V_{x_l y} = \frac{1}{N} \sum_{g=1}^N (x_{g,l} - A_{x_l})(y_g - A_y) .$$

Sarndal, Swensson, and Wretman (1992, Section 13.2, page 486) follow a similar development in defining regression coefficients in the context of finite populations.

Estimation: As in the example in Section 3.2, the variance-covariance matrix  $V_{\underline{x}'\underline{x}}^{-1}$  forms a multivariate denominator total to be estimated using the sample data. The numerator total is the vector quantity  $V_{\underline{x}'y}$ . First, the unit-level quantities  $x'_g x_g$  and  $x'_g y_g$  are computed for the units in the sample. Then these are weighted and added over the strata. Domain specific regressions are computed by applying the domain indicator variables as in the previous subsections. Notationally, the estimate is

$$\hat{V}_{\underline{x}'\underline{x}} = \sum_h \frac{N_h}{n_h} \sum_{i=1}^{n_h} \delta_{d,h,i} x'_{h,i} x_{h,i} .$$

The inverse of the matrix,  $\hat{V}_{\underline{x}'\underline{x}}^{-1}$ , is computed using standard procedures. Similarly, the numerator quantity is estimated by

$$\hat{V}_{\underline{x}'y} = \sum_h \frac{N_h}{n_h} \sum_{i=1}^{n_h} \delta_{d,h,i} x'_{h,i} y_{h,i} .$$

The estimated regression coefficients are then computed by pre-multiplying the numerator vector by the inverse matrix.

The Taylor series linearized variables<sup>5</sup> used to compute the variance-covariance matrix of the regression coefficients, are defined by the  $p$ -element column vectors,

$$z_{d,h,i} = \delta_{d,h,i} x'_{h,i} (y_{h,i} - \underline{x}_{h,i} \underline{\beta}) .$$

Each observation contributes the amount

$$\hat{T}_{d,\underline{z},h,i} = \frac{N_h}{n_h} z_{d,h,i}$$

to the estimated total for the  $h$ -th stratum which, as in equation [3-6], can be written as the average of the individual contributions. That is,

$$\hat{T}_{d,\underline{z},h} = \frac{1}{n_h} \sum_{i=1}^{n_h} \hat{T}_{d,\underline{z},h,i} .$$

To form the variance-covariance matrix of the ( $p$ -element vector) stratum totals, take the difference between the observation-level contributions to the stratum totals and the stratum total, and then post-multiply by its transpose. Then sum the resulting matrices over the set of observations. That is,

$$\hat{Var}\{\hat{T}_{d,\underline{z},h}\} = \left( \frac{N_h - n_h}{N_h} \right) \left( \frac{n_h}{n_h - 1} \right) \sum_{i=1}^{n_h} [\hat{T}_{d,\underline{z},h,i} - \hat{T}_{d,\underline{z},h}] [\hat{T}_{d,\underline{z},h,i} - \hat{T}_{d,\underline{z},h}]' \quad [3-14]$$

Equation [3-14] replaces equation [3-10] in Section 3.2. As is the case with equation [3-10], equation [3-14] is an intermediate result. The variance-covariance matrix of the regression coefficients is computed by summing the matrices in equation [3-14] over the design strata and pre- and post-multiplying the sum by the inverse matrix  $\hat{V}_{\underline{x}'\underline{x}}^{-1}$ . That is,

$$\hat{Var}\{\hat{\underline{\beta}}\} = \hat{V}_{\underline{x}'\underline{x}}^{-1} \sum_h \hat{Var}\{\hat{T}_{d,\underline{z},h}\} \hat{V}_{\underline{x}'\underline{x}}^{-1} .$$

Reference is made to Sarndal et al. (op. cit.), Section 5.10.2, pages 192 through 197 for a similar development. Sarndal and colleagues credit Folsom (1974) as being "... among the first to present results similar ..." to these.

<sup>5</sup> The linearized variable in the regression context is a multivariate extension of the two-variable case presented in Appendix C.



#### 4. Missing Data Compensation and Evaluation

A distinction is made in this section between *sampling weights* and *analysis weights*. Sampling weights are defined as the inverses of the expected frequencies with which individuals are selected into the sample. The sampling weights are subsequently modified, primarily to compensate for the missing data patterns actually experienced. The modifications are applied to the sampling weights to produce the analysis weights, which are then used to compute the parameter estimates and their associated variance estimates.

These and previous surveys of gender issues in the military employ weighting class adjustments to compensate for nonresponse biases. As noted earlier in association with equation [3-9], sample estimates of domain sizes are obtained by summing the sampling weights over the sample individuals that belong to the domain. Clearly if some of the domain members fail to respond, the sum of the sampling weights over the set of respondents will underestimate the size of the domain. Weighting class adjustments multiply the sampling weights for respondents by an adjustment factor to produce analysis weights that, when summed over respondents, equal the sum of the sampling weights for respondents and nonrespondents. The adjustment factors are computed within classes constructed with the objective of placing nonrespondents in the same class with respondents thought to have substantially similar response variable values. Classes are typically constructed from demographic variables known from previous research to be associated with differences in survey response rates and with differences in responses on key items in the survey.

To the extent that this objective is met, the adjustment reduces the bias in estimates of the domain parameters and adjusts the estimated size of the domain. The magnitude of the bias depends on the number of nonrespondents and on the differences in response variable values between respondents and nonrespondents. Hence, in the presence of low response rates, relatively small differences between respondents and nonrespondents can result in substantial biases remaining in the adjusted estimates.

Construction of the weighting classes is described in Section 4.2. A method for examining the adjusted estimates for evidence of residual biases is described in Section 4.3. This method derives from the geometrical interpretation of weighting class adjustments as straight line projections. The method is applied to selected key estimates as described in Section 4.4.

The notation used in this section builds on that used in Section 3. Given the design, the sampling weights are the quantities

$$w_{h,i} = \frac{N_h}{n_h}, \quad i = 1, 2, \dots, n_h,$$

for each of the surveys. That is, for each individual classified into the  $h$ -th stratum, the sampling weight is simply the total number of individuals in the stratum divided by the stratum-level sample allocation. Using this notation, an estimated domain total is rewritten as,

$$\hat{T}_{d,y} = \sum_h \sum_{i=1}^{n_h} \delta_{d,h,i} w_{h,i} y_{h,i} .$$

The total defines some variety of parameters depending on the response variable values  $y_{h,i}$  (as described with examples in Section 3.1).

However, because of nonresponse, observations are obtained for only  $i' = 1, 2, \dots, r_h \leq n_h$  individuals. Clearly, at least for values of  $y_{h,i} = 1$ , the quantity

$${}^r\hat{T}_{d,y} = \sum_h \sum_{i'=1}^{r_h} \delta_{d,h,i'} w_{h,i'} y_{h,i'} , \quad [4-1]$$

that is the sum of the sampling weights over respondents, underestimates  $\hat{T}_{d,y}$  whenever  $r_h < n_h$ . This requires some type of adjustment.

Nonresponse is defined as occurring whenever one or both of the values  $\delta_{d,h,i}$  or  $y_{h,i}$  are missing or unknown such that the product  $\delta_{d,h,i} \times w_{h,i} \times y_{h,i}$  cannot be formed. If, for example, the  $d$ -subscript identifies the domain of survey-eligible female officers, then the  $i$ -th sample individual is a nonrespondent if at least one of a person's eligibility status, gender, and paygrade is indeterminate (i.e., the value of  $\delta_{d,h,i}$  is unknown) or a value is not obtained for the person's response variable (i.e., the value of  $y_{h,i}$  is unknown). Further note that, if the  $i$ -th individual is known to be ineligible, then, because  $\delta_{d,h,i} = 0$ , the value of the product  $\delta_{d,h,i} \times w_{h,i} \times y_{h,i} = 0$  (i.e., is known) and the individual is by definition a respondent.

#### 4.1 Weighting Class Adjustments

Weighting class adjustments compensate for the differences  $\hat{T}_{d,y} - {}^r\hat{T}_{d,y}$  by first constructing classes of sample individuals within which respondents and nonrespondents thought to have substantially similar response variable values, and then adjusting the sampling weights for the respondents in each class so that they equal the sum of the weights for all sample individuals in the same class. The adjustment is simply the sum of the weights over all of the sample individuals in a class divided by the sum of the weights over the respondents in the same class. That is, denoting a class using the subscript,  $c$ , the adjustment for the  $i'$ -th respondent in the  $h$ -th stratum is simply

$$a_{c,h,i'} = \frac{\sum_h \sum_{i=1}^{n_h} \delta_{c,h,i} w_{h,i}}{\sum_h \sum_{i=1}^{n_h} \delta_{c,h,i} \delta_{r,h,i} w_{h,i}} , \quad [4-2]$$

where,

$$\begin{aligned}\delta_{c,h,i} &= 1, \text{ if the } i\text{-th individual in the } h\text{-th stratum is classified into the } c\text{-th weighting class,} \\ &= 0, \text{ otherwise,} \\ \delta_{r,h,i} &= 1, \text{ if the } i\text{-th individual in the } h\text{-th stratum is a respondent,} \\ &= 0, \text{ otherwise.}\end{aligned}$$

If, for example, classes were defined by gender, then a gender-specific adjustment factor is computed by separately summing the sampling weights for all of the males and all of the females in the sample and dividing each sum by the corresponding sum of the sampling weights for respondents.

Then the adjusted analysis weights,

$${}^r w_{h,i'} = a_{c,h,i'} w_{h,i}, \quad [4-3]$$

computed by multiplying the sampling weights by the appropriate adjustment, are used in place of the sampling weights in the estimation procedures described in Section 3, with the subscript  $i' = 1, 2, \dots, r_h$  replacing  $i = 1, 2, \dots, n_h$ .

Note that weighting classes are similar to strata in the sense that both are constructed to contain individuals having specified characteristics in common. They differ in that weighting classes partition the sample, while strata partition the population. Partition, in the sense intended, implies that an individual belongs to only one class or stratum and that all individuals are accounted for in the set of classes or strata constructed. The notation in equation [4-2] is intended to show that weighting classes can be constructed to contain individuals from different strata and, conversely, individuals in the same stratum can belong to different classes.

## 4.2 Construction of Weighting Classes

A central objective is to construct weighting classes within which the characteristics of nonrespondents will be, on the average, the same as those of respondents. A convenient starting point for constructing the weighting classes is provided by the design strata. To reduce variances, strata are constructed to have different means and less variability among individuals within the stratum than exists within the population as a whole. Hence, if strata were constructed with this objective in mind, then the population, and by implication the sample, have already been partitioned into groups of individuals who share definably similar characteristics, namely the values of the stratification variables. Further, the stratification variable values are never unknown or missing, such that every nonrespondent can be placed in a class.

Using strata as weighting classes works best when the stratum-level response rates are not too different from each other and when enough observations (i.e., respondents) are available in a stratum to form a class. Widely disparate response rates from one class to another, whether or



not the classes are also strata, introduces unequal weighting effects. These can inflate variances perhaps to a level not justified by the level of bias compensation achieved by the weighting class adjustment. This occurrence results in the mean square error of a bias-compensated estimate being greater than the mean square error of the biased estimate. Given such a result, the largest adjustment factors are reduced in value and the total amount of the reduction is distributed over other weighting classes to keep the overall sum of the analysis weights equal to the overall sum of the sampling weights. The objective of the procedure (often referred to as smoothing or trimming the weights) is to find the combination of variance and bias that minimizes the mean square error.

Because sampling strata are typically constructed from variables thought to be related to survey response propensity and/or important differences in the survey subject matter, the first step in nonresponse compensation is to examine the number of respondents and the observed response rates in each of the design strata. This information is reported in Tables B-11, B-12 and B-13, Appendix B, for the Form A, Form B, and Form C surveys, respectively. Strata with more than 20 respondents are identified as candidate weighting classes. Strata with fewer respondents were combined with others to provide classes with at least 20 respondents. Gender, Service and officer/enlisted distinctions were preserved in constructing the combinations.

The strata and stratum combinations used to define the weighting classes are also shown in Tables B-11 through B-13. Weighting classes are serially numbered in the tables. Strata that have been collapsed to form a weighting class appear in the tables with the same weighting class number. A total of 110 weighting classes were constructed for the Form A survey; 130 weighting classes were constructed for the Form B survey, and 78 for the Form C survey.

### 4.3 Geometric Interpretation

Weighting class adjustments can be given a geometric interpretation. Consider a Cartesian plot with ordinal values equal to the estimated totals and abscissal values equal to the estimated number of respondents at cumulative points over the data collection period. Note that the estimated number of respondents implies the fully weighted sample estimate of the corresponding population parameter. That is, the abscissal value estimates the total number of respondents as though a census of the population had been undertaken using the same data collection procedures used for the sample. The ordinal value can be any estimated total, such as the number of women who report having experienced unwanted sexual attention.

A straight line can be drawn from the origin to the point described by the biased estimate  $\hat{T}_{d,y}$  described by equation [4-1] and the associated estimated number of respondents in the population. Then the weighting class adjustment can be interpreted as the projection of the straight line from this point to the point of full response.

The notation used in this section is changed to accommodate this interpretation. Define the Cartesian point  $(x_r, y_r)$ , where

$$x_r = \sum_h \sum_{i=1}^{n_h} \delta_{r,h,i} w_{h,i} ,$$

$$y_r = \sum_h \sum_{i=1}^{n_h} \delta_{r,h,i} \delta_{d,h,i} w_{h,i} y_{h,i} = {}^r\hat{T}_{d,y} ,$$

and the estimated slope,

$$b_r = \frac{y_r}{x_r} .$$

That is,  $x_r$  is the estimated size of the population of respondents;  $y_r$  is the biased estimate given in equation [4-1]; and  $b_r$  is the slope of the line through the origin and the point  $(x_r, y_r)$ . Note that  $\delta_{r,h,i} = 0$  when either or both of  $\delta_{d,h,i}$  and  $y_{h,i}$  are missing, such that the point  $(x_r, y_r)$  is defined regardless of the missing data pattern. Further note that, although the ordinal value  $y_r$  is domain specific, the  $d$ -subscript identifying domains has been omitted (for notational convenience) in defining the point  $(x_r, y_r)$  and the slope  $b_r$ . The fact that the ordinal points and the slopes are domain specific is understood in what follows.

With these definitions, the weighting class adjusted estimate is given by

$$y_f = y_r + b_r(x_f - x_r) \quad [4-4]$$

where the point  $(x_f, y_f)$  defined by

$$x_f = \sum_h \sum_{i=1}^{n_h} w_{h,i} ,$$

$$y_f = {}^f\hat{T}_{d,y} ,$$

is the point of full response.

The geometric interpretation of a weighting class adjustment lends some emphasis to the importance of the premise that, for the adjusted estimate to be unbiased, the missing response variable values for nonrespondents must be, on average, the same as those for respondents within the same weighting class. If, however, nonrespondents tend disproportionately to belong or not to belong to the reporting domain of interest, or if they tend to have smaller or larger  $y$ -values than respondents, then the straight line projection is inappropriate. For example, if sample women who have experienced unwanted sexual attention tend not to respond to the survey, possibly because of fear of repercussions, then the weighting class adjusted estimate of the number of females reporting the experience is biased low. Conversely, if respondents tend to be women who have had these experiences, possibly motivated to respond in the hope of changing things, then the adjusted estimate is biased high.

One way to examine the veracity of the assumption is to examine the straight line projections at more than a single point in the data collection period. If the weighting class adjustments at different points fall reasonably along the same straight line, then evidence is

provided that the adjustments are performing satisfactorily. A non-linear path suggests that the characteristics of nonrespondents are changing over the period of data collection. Experience suggests that points taken early in the data collection period tend to be uninformative about trends late in the period. This may be attributed to the often experienced phenomenon that the early returns in a survey tend to reflect operational expediencies that disappear as data collection progresses. For example, in the case of face-to-face or telephone surveys, interviewers often tend to work the recognizably easy cases first. Similarly, in mailed surveys to military populations, the earliest returns might be from personnel in office rather than field assignments, or in the U.S. versus overseas or aboard ship.

Despite possible perturbations, the path described by any set of points  $(x_r, y_r)$  for different values of the  $r$ -subscript is a non-decreasing function over the data collection period<sup>6</sup>. The choice of points is arbitrary, requiring only that additional respondents are obtained from one point to the next. Obviously, if the set of respondents doesn't increase from one time to the next, or from one step in a follow-up schedule to the next, then a new point in the series has not been defined. Otherwise changes in the slope  $b_r$  over different values of the  $r$ -subscript are indicative of changes in the parameter estimate as more respondents are added to the sample dataset.

Changes in the slopes can be used to further adjust the final weighting class adjusted estimate in an effort to account for the differences between respondents and nonrespondents. The adjustment involves determining the rate of change of the slopes at two points  $(x_{r-1}, y_{r-1})$  and  $(x_r, y_r)$ , and extrapolating the rate of change (using a second order difference equation) over the interval from  $x_r$  to  $x_f$ .

For this purpose, define

$$\bar{b}_f = \frac{y_f}{x_f} = b_r + \left( \frac{b_{r-1} - b_r}{x_{r-1} - x_r} \right) (x_f - x_r).$$

Then the estimated domain total obtained by extrapolating the second order difference is given by

$$\bar{y}_f = \bar{b}_f x_f. \quad [4-5]$$

We distinguish the estimator given in equation [4-4] from the linearly adjusted estimator given in equation [4-3] using the symbols  ${}^f\hat{T}_{d,y}$  and  ${}^f\hat{T}_{d,y}$ , respectively.

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<sup>6</sup>If the totals on the ordinate are domain sizes (that is, if the response variable values  $y_{h,i} = 1$  for all values of the subscripts), then the path describes the changes in the estimate given the minimum (i.e., most negative) bias that can occur at the level of response indicated on the abscissa. Because the values of the response variables are known (only the domain indicator variables are unknown for nonrespondents), another path can be constructed given the maximum bias. The path is described by a non-increasing function. The true domain size must lie between the two paths, which converge at the point of full response.

Equation [4-4] is equivalent to applying two weighting class adjustments to the sampling weights in a manner similar to that described in Section 4.1. The first set of weight adjustments is applied to the respondent set available at the point  $(x_{r-1}, y_{r-1})$  and the second set to the incremental respondents obtained between the points  $(x_{r-1}, y_{r-1})$  and  $(x_r, y_r)$ .

The adjustment factors are computed in two steps. First, compute the adjustment factors using equation [4-2] applied to the points  $(x_r, y_r)$  and  $(x_{r-1}, y_{r-1})$ . Denote these factors by  ${}^r a_{c,h,i}$  and  ${}^{r-1} a_{c,h,i}$  respectively. Additionally compute a new adjustment factor defined by

$${}^4 a_{c,h,i} = \frac{\sum_h \sum_{i=1}^{n_h} \delta_{c,h,i} w_{h,i}}{\sum_h \sum_{i=1}^{n_h} \delta_{c,h,i} \delta_{r,h,i} (1 - \delta_{r-1,h,i}) w_{h,i}}.$$

Note that  $\delta_{r-1,h,i} = \delta_{r,h,i} = 1$  for respondents available at the point  $(x_{r-1}, y_{r-1})$ . Then, second, compute the modified adjustment factors given by,

$$\begin{aligned} {}^1 a_{c,h,i} &= ({}^r a_{c,h,i} - 1)({}^{r-1} a_{c,h,i} - 1), \\ {}^2 a_{c,h,i} &= 1 + ({}^r a_{c,h,i} - 1)({}^4 a_{c,h,i} + 1). \end{aligned}$$

The adjustment factors  ${}^1 a_{c,h,i}$  are applied to the respondents available at the point  $(x_{r-1}, y_{r-1})$  and the factors  ${}^2 a_{c,h,i}$  are applied to the incremental respondents picked up between this point and the point  $(x_r, y_r)$ . Applying these factors to the relevant sampling weights yields the adjusted weights,

$$\begin{aligned} {}^{r-1} w_{h,i} &= {}^1 a_{c,h,i} w_{h,i}, \\ {}^4 w_{h,i} &= {}^2 a_{c,h,i} w_{h,i}. \end{aligned}$$

Then the modified estimate can be written as

$${}^* \hat{T}_{d,y} = \sum_h \sum_{i=1}^{n_h} \delta_{r-1,h,i} \delta_{d,h,i} {}^{r-1} w_{h,i} y_{h,i} + \sum_h \sum_{i=1}^{n_h} \delta_{r,h,i} (1 - \delta_{r-1,h,i}) \delta_{d,h,i} {}^4 w_{h,i} y_{h,i}.$$

The modified adjustment factors behave as expected, in that the sum of the adjusted weights over respondents equals the sum of the sampling weights in the same class. However, because of the unequal weighting effect that is introduced, the variance properties of the estimate obtained using the modified factors can be quite poor, depending on the number of incremental respondents and the magnitude of the difference between the slopes. This suggests using a ratio type of adjustment, obtained by dividing the estimator given by equation [4-5] by the estimator given in equation [4-4]; that is, using the adjustment factors

$$a_{h,i} = \frac{\hat{T}_{d,y}}{\hat{T}_{d,y}},$$

applied to the set of respondents available at the point  $(x_r, y_r)$  rather than differentially adjusting respondents available at the two points  $(x_r, y_r)$  and  $(x_{r-1}, y_{r-1})$ .

#### 4.4 Performance Evaluation

The performance of the SAFS weighting classes was checked by testing the differences between the slopes of the straight line projections corresponding to weighting class adjustments computed for the set of respondents available in the interim and in the final sample datasets. Estimates of the number of persons reporting having experienced one or more of the behaviors that define unwanted sexual attention were used for the tests. Tests were performed for the weighting classes constructed for each of the forms (see Tables B-11, B-12, and B-13, Appendix B).

The tests take the form of testing the null hypothesis

$$H_0: b_{c,r} - b_{c,r-1} = 0$$

against the two-tailed alternative that the difference in slopes is not zero. The notation  $b_{c,r}$  denotes the slope of the straight line projection corresponding to the  $c$ -th weighting class adjustment computed using the final sample dataset, and  $b_{c,r-1}$  denotes the slope for the same weighting class computed using the interim dataset. Note that the sample estimates  $\hat{b}_{c,r}$  and  $\hat{b}_{c,r-1}$  are highly correlated, which must be taken into account in computing the variance of the differences.

The results for the Form A, Form B, and Form C survey weighting classes are provided in Appendix B, Tables B-14, B-15, and B-16, respectively. Each table lists the following items:

- The values of the slopes computed using the final and interim sample datasets.
- The difference between the slopes, stated as in the null hypothesis above.
- The test statistic, Student's  $t$ , for the difference in slopes.
- The probability associated with the computed value of the test statistic.

None of the tests were statistically significant, indicating that the sample data provide no evidence that the slopes were different. This, in turn, suggests that the weighting-class-adjusted estimates are not significantly biased as judged by the differences between respondents available in the interim and in the final datasets.

#### 4.5 Post-stratification Adjustments

The final step in producing the analysis weights involved a post-stratification step to force selected sample estimates to equal known population totals. Notationally, the known population totals are denoted by the vector quantity

$$T_0 = [T_{1,0} \quad T_{2,0} \quad \cdots \quad T_{p,0} \quad \cdots \quad T_{P,0}],$$

the elements of which are described in Table 3. The population counts in Table 3 correspond to the source information used to construct the sampling frame, but updated to January 1995. The month-end counts for January 1995 were selected as the population for post-stratification since those data were current less than two weeks before the start of the data collection period.

Table 3.  
*Post-stratified Population Totals*

Description	Population Count
Total active force	1,687,320
Army	536,070
Navy	457,627
Marine Corps	174,521
Air Force	415,895
Coast Guard	36,379
AGR/TARs	66,828
Males	1,478,464
Females	208,856
Army $\times$ Males	466,254
Army $\times$ Females	69,816
Navy $\times$ Males	405,253
Navy $\times$ Females	52,374
Marine Corps $\times$ Males	166,769
Marine Corps $\times$ Females	7,752
Air Force $\times$ Males	350,873
Air Force $\times$ Females	65,022
Coast Guard $\times$ Males	33,317
Coast Guard $\times$ Females	3,062
AGR/TARs $\times$ Males	55,998
AGR/TARs $\times$ Females	10,830

Post-stratification weight adjustment factors taking the form

$$b_{h,i} = 1 + \exp(-\alpha - X_{h,i}\beta) \quad [4-6]$$

are computed and applied multiplicatively to the weighting class adjusted weights  ${}^r w_{h,i'}$  given in equation [4-3]. In this expression, the vector quantity

$$X_{h,i} = [X_{1,h,i} \quad X_{2,h,i} \quad \cdots \quad X_{p,h,i} \quad \cdots \quad X_{P,h,i}]$$

consists of indicator variables taking on the values

$$X_{p,h,i} = 1, \text{ if the } i\text{-th sample individual selected from the } h\text{-th stratum is counted among the individuals comprising the total } T_{p,0},$$

$$= 0, \text{ otherwise.}$$

The unknown value,  $\alpha$ , and the  $P \times 1$  vector of unknowns,

$$\beta = [\beta_1 \quad \beta_2 \quad \cdots \quad \beta_p \quad \cdots \quad \beta_P]'$$

are computed by numerically solving the set of equations

$$\sum \sum {}^r w_{h,i} \delta_{r,h,i} (1 + \exp(-\alpha - X_{h,i} \beta)) X_{h,i}' = T_0'.$$

As mentioned above, the post-stratification adjustment factors,  $b_{h,i}$ , multiply the weighting class adjusted weights,  ${}^r w_{h,i'}$ , making the final analysis weights

$${}^f w_{h,i'} = {}^r w_{h,i'} b_{h,i} = w_{h,i'} a_{c,h,i'} b_{h,i'}.$$

The estimation procedures described in Section 3 apply, with the subscript  $i' = 1, 2, \dots, r_h \leq n_h$  denoting respondents replacing the subscript  $i = 1, 2, \dots, n_h$  and the analysis weights  ${}^f w_{h,i'}$  replacing the sampling weights  $w_{h,i'} = N_h / n_h$  for all values of the  $i'$ -subscript.

## 5. Performance Rates

It is important to examine the performance rates for surveys to judge the success of the survey effort and to plan for future survey efforts. In this section, response rates are provided for comparison of the performance of this survey effort with other survey efforts and to provide information for planning future surveys.

For example, the sample allocation for these surveys was determined in part by response rate information from previous DMDC surveys, specifically in the cost model, and in determining the sample sizes needed to provide the allocated number of observations in each of the design strata. For these purposes information was required on the response rate distribution in relation to the stratification variables. To be most useful in this context, the response rates used should be estimates of the corresponding population parameters, complete with associated variance estimates, as opposed to unweighted tabulations. That is, the response rates take the form of the estimated number of respondents in the population divided by the estimated size of the population. The procedures described in Section 3.1 apply, using the person-level variables defined by the products  $\delta_{r,h,i} \times \delta_{d,h,i} \times y_{h,i}$ . Note that, because the values of the response indicator variables  $\delta_{r,h,i}$  are known for every individual in the sample, missing data problems do not arise when estimating response rates. By implication, the sampling weights rather than the analysis weights are used in the calculations.

Also note that the response (and other operational) rates estimated for the population will differ, in general, from unweighted or observed rates. For these surveys examples are provided in the cases of eligible response rates and completion rates discussed in Section 5.2 below. Unweighted rates are commonly tabulated during data collection activities for the purpose of monitoring the performance of the data collection procedures over the data collection period. Care must be used in the use of unweighted rates, however, since such rates are distorted to the extent that the survey sample is nonproportional for strata having different response propensities.

### 5.1 Response Rates

The estimated response rates and associated sampling variances for the Form A, B, and C surveys are provided in Appendix B, Tables B-17, B-18, and B-19 respectively. By definition, a nonrespondent is counted whenever one or both of the values  $\delta_{d,h,i}$  or  $y_{h,i}$  is missing or unknown. Unit-level rates are shown in the tables for the variables used in defining the design strata.

Estimated overall response rates for the three forms are as follows.

- Form A: 50.93 percent,  $\pm 1.40$ .
- Form B: 54.72 percent,  $\pm 0.90$ .
- Form C: 57.94 percent,  $\pm 1.20$ .



## 5.2 Other Operational Rates

Operational rates other than response rates are important in the conduct of most surveys, including these, particularly in association with determining the variable survey costs. Tables B-20 through B-28 in Appendix B list estimates and variances for the following additional operational rates.

- eligible response rate =  $\frac{\text{eligible respondents}}{\text{known eligibles}}$

This rate describes the unit-level response rate among individuals known to be eligible for participation in the survey. For these surveys, the response rates among known eligible persons typically runs about two percentage points higher than the overall response rates. Estimated total eligible response rates for the three forms are as follows.

- Form A: 52.29 percent,  $\pm 1.5$ .
- Form B: 56.84 percent,  $\pm 0.96$ .
- Form C: 59.49 percent,  $\pm 1.24$ .

Some investigators prefer to cite eligible response rates in contrast to the overall response rates defined in Section 5.1. Eligible response rates essentially ignore any cases where, as a result of nonresponse, the eligibility status of some persons in the sample cannot be determined.

The observed or unweighted eligible response rates for the each of the forms, for comparison to the parameter estimates cited above, are as follows.

- Form A: 46 percent.
  - Form B: 58 percent.
  - Form C: 56 percent.
- pre - mailing eligible response rates =  $\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible}}$

Prior to undertaking the first mailing, but after the sample is selected, sample individuals known to be ineligible on the basis of administrative records are removed from the mailing lists. Removing known ineligibles after the sample is selected reduces the mailing costs and the handling and editing costs of returned questionnaires. Note that, because ineligibles are identified only in the selected sample rather than in the sampling frame, estimated sampling variances properly include the inefficiency associated with having included the known ineligible persons in the sample. The pre-mailing eligible response rate estimates the unit-level response rate excluding persons known to be ineligible on the basis of the administrative

records. These rates are typically slightly more than one percentage point lower than the overall response rates for these surveys. Estimated total pre-mailing eligible response-rates for the three forms are as follows.

- Form A: 49.54 percent,  $\pm 1.44$ .
- Form B: 53.44 percent,  $\pm 0.92$ .
- Form C: 56.67 percent,  $\pm 1.20$ .
- completion rate =  $\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible} - \text{non - deliverables}}$

The completion rate resembles the pre-mailing eligible response rate except that persons to whom packages could not be delivered have been removed from the denominator of the rate. Removal of the non-deliverables from the denominator has the effect of increasing the rate about three percentage points above the pre-mailing eligible response rates and about one and one-half percentage points above the overall response rates. Estimated completion rates for these forms are as follows.

- Form A: 52.45 percent,  $\pm 1.50$ .
- Form B: 56.99 percent,  $\pm 0.96$ .
- Form C: 59.56 percent,  $\pm 1.24$ .

### 5.3 Comparisons of Respondents and Nonrespondents

The objective in this section is to test the variables used to define the dimensions of stratification listed in Appendix B, Table B-18, for significance associations with the observed response rates. For this purpose, an exploratory model was constructed expressing the response indicator variables,  $\delta_{r,h,i}$ , as a function of:

- Service at five levels: Army, Navy, Marine Corps, Air Force and Coast Guard,
- Paygrade Group at six levels: E1-E3, E4, E5-E9, W1-W5, O1-O3, and O4-O6 for the Army, Navy, Marine Corps and Coast Guard, and five levels excluding Warrant Officers for the Air Force.
- Gender at two levels: male and female,
- Race/Ethnicity at six levels: non-Hispanic White, non-Hispanic Black, Hispanic, Native American, Asian and Pacific Islander, and Other (persons not classified into one of the previous groups).
- All possible first order interactions.

The model is fitted following the estimation procedures described in Section 3.3 and the statistical significance of the effects judged using Wald chi-square test statistics. The Wald chi-square test statistic is defined by

$$\chi_w^2 = [C\hat{\underline{\beta}}]' [C\hat{Var}\{\hat{\underline{\beta}}\}C']^{-1} [C\hat{\underline{\beta}}],$$

where, C is a matrix of indicator variables identifying the parameters included in the test. That is, given the estimable null hypothesis  $H_0: C\underline{\beta} = 0$ , the ones and zeros in a row of the contrast matrix C select the elements from the  $\underline{\beta}$  vector to appear in the test. The rows in the contrast matrix determine the degrees of freedom associated with the test.

The results are shown in Table 4. Three of the first-order interactions, those involving the paygrade groups are statistically significant. The interaction terms Service by gender, Service by race/ethnicity, and gender by race/ethnicity are not significant and are dropped from the model. That is, the final analytic model, shown in Table 5, expresses the response indicator variables as a function of the Service, paygrade group, gender, and race/ethnicity main effects and the Service by paygrade group, paygrade group by gender, and paygrade group by race/ethnicity interactions.

Table 4.  
*Main Effects and All First-order Interactions*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
Model	92	6,857.9960	< 0.0001
Service by Paygrade Group	19	55.9511	< 0.0001
Service by Gender	4	3.8457	0.4273
Service by Race/Ethnicity	19	15.3447	0.7005
Paygrade Group by Gender	5	58.0468	< 0.0001
Paygrade Group by Race/Ethnicity	25	64.2732	< 0.0001
Gender by Race/Ethnicity	5	10.3612	0.0656

$R^2 = 0.1098$

Table 5.  
*Main Effects and Significant First-order Interactions*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
Model	64	5,527.6030	< 0.0001
Service by Paygrade Group	19	60.2350	< 0.0001
Paygrade Group by Gender	5	59.2839	< 0.0001
Paygrade Group by Race Ethnicity	25	72.5304	< 0.0001

$R^2 = 0.1090$

Contrast matrices were constructed to test for the main effects individually conditional on the overall effects of the other terms in the model. For example, a comparison of any two Services can be made conditionally on the overall paygrade group, gender, and race/ethnicity effects.

In making the main effect comparisons for Services, the Navy was compared with each of the other Services. The estimated response rates for each of the Services are (from Table B-18):

- Army: 51.76 percent,
- Navy: 55.58 percent,
- Marine Corps: 39.21 percent,
- Air Force: 63.46 percent,
- Coast Guard: 62.96 percent.

The Navy is picked to form the basis for comparison with the other Services because it most closely approximates the overall Form B average response rate of 54.72 percent.

The Service comparisons are shown in the first section of Table 6. Each of the comparisons of the Navy against the other Services is statistically significant.

Differences due to the paygrade groups were tested next. Comparisons were made between paygrade groups E1-E3 and E4, E4 and E5-E9, E5-E9 and W1-W5, W1-W5 and O1-O3, and O1-O3 and O4-O6. The point estimates for the paygrade groups from Table B-18 are:

- E1-E3: 35.09 percent,
- E4: 44.69 percent,
- E5-E9: 62.70 percent,
- W1-W5: 69.32 percent,
- O1-O3: 73.30 percent,
- O4-O6: 80.57 percent.

Interest in this case lies in testing the hypotheses that response improves with the rank of the individual. Enlisted grade E4 is tested separately against grades E1-E3 and E5-E9. E4s can be viewed as a transition group, and interest in this case is in positioning them relative to enlisted personnel and higher ranking non-commissioned officers.

The results are shown in the second section of Table 6. Again, each of the comparisons is significant.

Table 6.  
*Main Effects*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
Overall Paygrade Group			
Gender			
Race/Ethnicity			
Navy vs. Army	6	18.2434	0.0057
Navy vs. Marine Corps	6	43.8521	< 0.0001
Navy vs. Air Force	5	48.0186	< 0.0001
Navy vs. Coast Guard	6	20.3010	0.0024
Overall Service			
Gender			
Race/Ethnicity			
E1-E3 vs. E4	11	110.0982	< 0.0001
E4 vs. E5-E9	11	412.4395	< 0.0001
E5-E9 vs. W1-W5	10	131.8864	< 0.0001
W1-W5 vs. O1-O3	10	43.7455	< 0.0001
O1-O3 vs. O4-O5	11	90.4855	< 0.0001
Overall Service			
Paygrade Group			
Race/Ethnicity			
Males vs. Females	6	144.7713	< 0.0001
Overall Service			
Paygrade Group			
Gender			
White vs. Black	6	118.9273	< 0.0001
White vs. Hispanic	6	2.6596	0.8502
White vs. Native American	6	26.4811	0.0002
White vs. Asian & Pacific Islander	6	23.9968	0.0005
White vs. Other	6	29.8420	< 0.0001

Table B-18 indicates females responded at a higher rate than males, with point estimates of:

- Males: 54.21 percent,
- Females: 58.34 percent.

This difference is tested in the third section of Table 6, and found to be significant.

Finally, the race/ethnicity comparisons were made using non-Hispanic Whites, the largest race/ethnic group, as the basis for the comparisons. Point estimates from Table B-18 are as follows:

- non-Hispanic White: 57.56 percent,
- non-Hispanic Black: 43.73 percent,
- Hispanic: 53.42 percent,
- Native American: 52.85 percent,
- Asian and Pacific Islander: 59.69 percent,
- Other: 55.83 percent.

The results of the tests are shown in the last section of Table 6. Non-Hispanic Whites are not significantly different from Hispanics. Each of the other comparisons is statistically significant.

The results in Table 6, because of the significant paygrade group interactions, depend on the mixture of paygrade groups found in each of the other main effects. Table 7 re-tests the paygrade group comparisons separately within each Service. The main effect comparison of E1-E3s with E4s is reflected in each of the Services except the Air Force, where the difference is not significant. That is, in the case of the Air Force, E4s respond similarly to E1-E3s.

Similarly, differences between junior grade and senior grade officers depend on the Service. Differences between the two officer categories are significant only in the Army and Marine Corps. In the other Services junior and senior officers respond similarly.

Finally, as shown in Table 8, the paygrade group comparisons remain significant when examined separately for males and females.

Table 7.  
*Paygrade Comparisons, By Service*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
<b>E1-E3 vs. E4</b>			
Army	7	13.8134	0.0546
Navy	7	39.2781	< 0.0001
Marine Corps	7	14.7458	0.0394
Air Force	7	10.9216	0.1421
Coast Guard	7	52.6686	< 0.0001
<b>E4 vs. E5-E9</b>			
Army	7	111.5344	< 0.0001
Navy	7	50.6053	< 0.0001
Marine Corps	7	42.0856	< 0.0001
Air Force	7	52.9000	< 0.0001
Coast Guard	7	27.0044	0.0003
<b>E5-E9 vs. W1-W5</b>			
Army	7	50.5310	< 0.0001
Navy	7	52.9039	< 0.0001
Marine Corps	7	31.0166	0.0001
Air Force	-	-	-
Coast Guard	7	40.5918	< 0.0001
<b>W1-W5 vs. O1-O3</b>			
Army	7	27.4284	0.0003
Navy	7	24.5242	0.0009
Marine Corps	7	20.3157	0.0049
Air Force	-	-	-
Coast Guard	7	22.1899	0.0024
<b>O1-O3 vs. O4-O5</b>			
Army	7	14.9031	0.0372
Navy	7	11.4299	0.1209
Marine Corps	7	17.4385	0.0148
Air Force	7	5.8653	0.5556
Coast Guard	7	11.1937	0.1304

Table 8.  
*Paygrade Comparisons, By Gender*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
E1-E3 vs. E4			
Males	10	87.9545	< 0.0001
Females	10	55.8958	< 0.0001
E4 vs. E5-E9			
Males	10	203.0684	< 0.0001
Females	10	217.6682	< 0.0001
E5-E9 vs. W1-W5			
Males	9	79.0256	< 0.0001
Females	9	98.7236	< 0.0001
W1-W5 vs. O1-O3			
Males	9	23.2783	0.0056
Females	9	42.5165	< 0.0001
O1-O3 vs. O4-O6			
Males	10	36.5332	0.0001
Females	10	62.0183	< 0.0001

The results are more mixed when the paygrade group comparisons are made within each of the race/ethnicity categories, as shown in Table 9. Differences between E1-E3s and E4s, and E4s and E5-E9s, remain statistically significant for each of the race/ethnicity categories. However, comparison of E5-E9s against warrant officers are not significantly different for the non-Hispanic Black, Hispanic, and Other categories, and the difference between warrant officers and company grade officers is not significantly different for the non-Hispanic White, Hispanic, and Other categories. The difference between junior and senior officers remains significant only in the case of non-Hispanic Whites. The difference disappears in each of the other race/ethnicity categories.

Given these interaction effects, the results are difficult to summarize succinctly. Clearly enlisted males are disproportionately likely to be nonrespondents, with gender and paygrade the main factors associated with nonresponse. It is therefore difficult to determine Service and race/ethnic differences that are not related to the different distributions of paygrade and gender in the Services and in the race/ethnic groups. Given the current Service composition by paygrade and gender, the observed response rates were lower for the Army and Marine Corps in comparison with the Navy, and higher for the Air Force and Coast Guard. Similarly, given the current paygrade and gender mix, response rates are lower for non-Hispanic Black and Native American categories and higher for Asians and Pacific Islanders than non-Hispanic Whites. No difference was demonstrated between the Hispanic and non-Hispanic White categories. A general improvement in response rates with increasing paygrade is evidenced, except that commissioned officers overall exhibited similar response rates in the Navy, Air Force, and Coast Guard.



Table 9.  
*Paygrade Comparisons, By Race/Ethnicity*

Source of Variation	Degrees of Freedom	Wald Chi-square	Probability
E1-E3 vs. E4			
non-Hispanic White	6	83.2531	< 0.0001
non-Hispanic Black	6	19.3648	0.0036
Hispanic	6	21.9810	0.0012
Native American	6	19.0131	0.0041
Asian & Pacific Islander	6	18.0853	0.0060
Other	6	18.0720	0.0061
E4 vs. E5-E9			
non-Hispanic White	6	148.9693	< 0.0001
non-Hispanic Black	6	82.7345	< 0.0001
Hispanic	6	29.7580	< 0.0001
Native American	6	22.0827	0.0012
Asian & Pacific Islander	6	24.0372	0.0005
Other	6	23.3953	0.0007
E5-E9 vs. W1-W5			
non-Hispanic White	5	21.8640	0.0006
non-Hispanic Black	5	8.9111	0.1127
Hispanic	5	4.4730	0.4835
Native American	5	33.3940	< 0.0001
Asian & Pacific Islander	5	60.1802	< 0.0001
Other	5	5.4788	0.3603
W1-W5 vs. O1-O3			
non-Hispanic White	5	8.1822	0.1465
non-Hispanic Black	5	11.9297	0.0358
Hispanic	5	6.5124	0.2595
Native American	5	11.9127	0.0360
Asian & Pacific Islander	5	19.2028	0.0018
Other	5	9.7870	0.0815
O1-O3 vs. O4-O6			
non-Hispanic White	6	28.0275	0.0001
non-Hispanic Black	6	9.6468	0.1403
Hispanic	6	10.0740	0.1216
Native American	6	10.4817	0.1058
Asian & Pacific Islander	6	11.1823	0.0829
Other	6	11.4298	0.0760

## 6. Sample Data Sets

Three SAS analysis files exist for each of Forms A, B, and C of the *1995 Status of the Armed Forces Surveys*. These files are:

- Survey Analysis File,
- Methods Analysis File, and
- Duplicate Analysis File.

The Survey Analysis File contains 50,051 records. Two types of respondent records are included on this file: data collected from ineligible study subjects (ineligibles), and data collected from eligible study subjects (eligibles). Both the eligibles and ineligible are counted as respondents since the eligibility status for the study is determined. The variables contained on this file are described in Appendix E, Section E.1.

The Methods Analysis File contains the 50,051 records from the Survey Analysis File plus 40,955 records from the study nonrespondents for a total of 91,006 records. The variables contained on this file are described in Appendix E, Section E.2.

The Duplicate Analysis File contains 694 records for the extra questionnaires returned by some study participants. The variables contained on this file are described in Appendix E, Section E.3.



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## Appendix A

### Analysis of the 1995 SAFS Surveys A, B, and C Using SUDAAN®

This appendix describes the use of the SUDAAN® for the analysis of data from the 1995 SAFS surveys A, B, and C. SUDAAN® is RTI's software which was developed for analyzing data from complex sample designs. Section A.1 discusses the sample design features that determine the SUDAAN® options to use. Section A.2 gives the SUDAAN® design options. Section A.3 describes how SUDAAN® can be used for within survey comparisons. Section A.4 describes the use of SUDAAN® for across survey comparisons (for example, the estimate from form A versus the estimate from form B). Section A.5 describes the use of SUDAAN® for comparisons with the 1988 survey. Finally, a brief description of the use of SUDAAN®'s regression procedures with these data is given in Section A.6.

#### A.1 Sample Design Features of the 1995 SAFS Surveys A, B, and C

This section contains a brief discussion of design features that determine the SUDAAN® options to be used.

These surveys are *stratified, single stage* sample designs. Strata were constructed from a variety of variables as described in Section 2.3; a simple random sample of persons was then selected from each of the strata. The samples for the three surveys were selected at the same time from the frame to prevent persons from being selected for more than one survey. However, for analysis, persons can be considered to have been selected *independently* for the three surveys.

The samples were selected *without replacement*, and in some of the strata the *sampling fractions are so large* that the finite population correction factor (fpc) which is used in the variance formula is not negligible. Most surveys actually are without replacement designs but in many cases the sampling fraction is small and can be ignored (see Cochran, p. 25 for guidance on ignoring the fpc). To use the without replacement formulas, the user should include the option **DESIGN=STRWOR** on the PROC statement. The user must also specify the population totals for each stratum in the sample design; this is done through the use of a variable on the SUDAAN® **TOTCNT** statement. These data could also be analyzed with the with replacement variance estimation option; the estimated variances would be expected to be larger than when the without replacement option is used.

Weighting class adjustments were used to adjust the initial sampling weights for nonresponse to create a response adjusted analysis weight. The weighting classes were constructed by combining strata with fewer than 30 cases. This collapsed strata variable is appropriate to use on the SUDAAN® **NEST** statement.

An attempt was made to remove ineligibles from the frame prior to sample selection, but some remained and were sampled. Sampled persons who could be identified as *ineligibles* are

treated as respondents for variance calculations and appear on the file with a positive weight; they are needed on the analysis file in order for SUDAAN<sup>®</sup> to properly calculate the variances. The proportion of ineligible is small, and whether or not they are included actually makes little practical difference in the variance estimates. There is an eligibility indicator on the weights files delivered to DMDC which takes values

ELIG\_FLG = 1, survey eligible  
          = 0, survey ineligible  
          = ., nonrespondent

This variable is used on the **SUBPOPN** statement in SUDAAN<sup>®</sup> to cause the ineligible persons to be excluded from the estimates, but included properly for variance estimation.

## A.2. Design Options

The considerations described in Section A.1 indicate that these SUDAAN<sup>®</sup> design options should be used:

**DESIGN=STRWOR;**           /\* appears on the PROC statement \*/  
**NEST WCSTRAT;**           /\* a single variable appears on the NEST statement \*/  
**TOTCNT NWCSTRAT;**       /\* a single variable giving the population totals in each statue \*/  
**SUBPOPN ELIG\_FLG = 1;**   /\* is used to define the domain of interest for the study, but keep  
                              all records on the file for variance estimation \*/  
**WEIGHT FINAL\_WT;**       /\* this is the poststratified weight constructed for analyses \*/

## A.3. Within Survey Comparisons

### A.3.1 Comparing Two Subgroups

For comparing one subgroup with another within a survey (for example, males versus females, or occupation group 1 versus occupation group 2, the SUDAAN<sup>®</sup> **DIFFVAR** statement is used to obtain the estimate of the difference and the standard error of that difference. SUDAAN<sup>®</sup> 6.4 and later versions have options for computing and printing the t-statistic and p-values.

### A.3.2 Comparing Two Analysis Variables

SUDAAN<sup>®</sup> does not have an option that will easily allow the user to compare two analysis variables; it necessary to work with the data to compute the statistical test. If the missing data patterns are the same for the two variables then the user can create a new variable

which is the difference of the two variables being compared, and use this new variable on the SUDAAN® VAR statement.

Another method that is more general and allows not only the comparison of means, but also the comparison of distributions of two variables using the chi square tests in CROSSTAB is the trick of doubling the data file and creating a variable with is '1' for the first half of the doubled data and is '2' for the second half. At the same time, the user creates a new analysis variable which is set to the first variable to be compared in the first half of the file, and to the second variable in the second half of the file. There is also a person identification variable (**FINAL\_ID**) on the file. Then SUDAAN® is run with the **WOR** option and two variables (**WCSTRAT** and **FINAL\_ID**) on the **NEST** statement.

These two techniques are best illustrated with an example. Suppose **DESCRIPT** has been used to get the mean of questionnaire items Q10 and Q20. If Q10 and Q20 are 0-1 variables then SUDAAN® would produce estimates of the proportions. The SUDAAN® program for obtaining estimated means and standard errors for the two variables individually consists of the following statements:

```
PROC DESCRIPT DESIGN=STRWOR DATA=FORMA;  
SUBPOPN ELIG_FLG=1;  
NEST WCSTRAT;  
TOTCNT NWCSTRAT;  
WEIGHT FINAL_WT;  
VAR Q10 Q20;  
PRINT MEAN SEMEAN;  
TITLE "Means for Variables Q10 and Q20";
```

Simply using a t-test with the standard errors printed by SUDAAN® will not give the correct test for comparing the means of Q10 and Q20 because these data are measured on the same people and are correlated.



If the missing data patterns are the same for Q10 and Q20, that is, if there is a nonmissing value for Q10 and also Q20, or both are missing simultaneously, and they are continuous (or 0-1 variables) then one method is to compute the difference  $Q10 - Q20$  for each person in the data file and rerun SUDAAN<sup>®</sup> using this difference on the VAR statement, as follows:

```
DATA FORMA; SET IN.FORMA;

DIFF1020=Q20 - Q10;

PROC DESCRIPT DATA=FORMA DESIGN=STRWOR FILETYPE=SAS;

SUBPOPN ELIG_FLG=1;

NEST WCSTRAT;

TOTCNT NWCSTRAT;

VAR DIFF20;

PRINT MEAN SEMEAN T_MEAN P_MEAN;

TITLE "Differences between Q10 and Q20";
```

The difference of the means and the sample sizes printed should correspond to the manually calculated difference of the means and the sample sizes on the first printout.

The following example demonstrates the more general method of doubling the data file.

```
DATA DOUBLE; SET FORMA;  
/* first variable to be compared */  
NEWVAR=Q10;  
GROUP=1;  
OUTPUT;  
/* second variable to be compared */  
NEWVAR=Q20;  
GROUP=2;  
OUTPUT;  
PROC SORT DATA=DOUBLE; BY WCSTRAT ID;  
PROC DESCRIPT DATA=DOUBLE DESIGN=WOR;  
NEST WCSTRAT FINAL_ID;  
TOTCNT NWCSTRAT _MINUS1_;  
VAR NEWVAR;  
SUBGROUP _ONE_ GROUP;  
LEVELS 1 2;  
TABLES _ONE_;  
DIFFVAR GROUP=(1,2);  
PRINT MEAN SEMEAN T_MEAN P_MEAN;
```

#### A.4. Across Survey Comparisons for the Same Year

For comparing an estimate from one survey with an estimate from another survey, for example Survey A versus Survey B, the samples can be treated as independent. The easiest way to compare two estimates is to make two separate SUDAAN® runs. A t-statistic for independent samples is then used to compare an estimate for a particular domain or subpopulation for Survey A with that for Survey B, using the standard errors obtained from each of the years. For example, to compare proportions  $p_A$  and  $p_B$ , with standard errors  $se_A$  and  $se_B$ , the following formula is used for computing the standard error of the difference:

$$se_{A-B} = \sqrt{se_A^2 + se_B^2}$$

and this formula to compute the t-statistic for testing the difference:

$$t = \frac{m_A - m_B}{\sqrt{se_A^2 + se_B^2}}$$

#### A.5. Comparisons with the 1988 Survey Data

The 1988 and 1995 surveys are independent. A t-statistic for independent samples can be used to compare an estimate for a particular domain or subpopulation for 1988 with that for 1995, using the standard errors obtained from each of the years. That is, to compare proportions  $p_{88}$  and  $p_{95}$ , with standard errors  $se_{88}$  and  $se_{95}$ , the following formula is used for computing the standard error of the difference:

$$se_{88-95} = \sqrt{se_{88}^2 + se_{95}^2}$$

and this formula to compute the t-statistic for testing the difference:

$$t = \frac{m_{88} - m_{95}}{\sqrt{se_{88}^2 + se_{95}^2}}$$

#### A.6. Regression Analysis

Linear and logistic regression models for data from this stratified, unequally weighted sample design can be fitted using the SUDAAN® procedures **REGRESS** and **LOGISTIC**. The **NEST**, **WEIGHT**, **DESIGN=**, and **TOTCNT** statements are identical to those used in the descriptive procedures.

**REGRESS** produces design-weighted least squares estimates of the model parameters and their variance-covariance matrix for linear regression models. **LOGISTIC** provides modeling capabilities for dichotomous or ordinal outcome variables using maximum likelihood techniques.

These procedures compute tests of the null hypothesis that individual regression coefficients in the beta vector are equal to zero. They compute tests for overall model significance, model minus intercept, as well as main effects and interaction effects.

## **Appendix B Data Tables**



**Table B-1. Precision Requirements for the Form A Survey**

Domain Number	Domain Label	Domain Size <sup>7</sup>	Population Proportion	Prevalence	Precision Constraint
1	Male	1417029	0.874	0.3	0.02
2	Female	197430	0.122	0.3	0.02
3	Army	533489	0.329	0.3	0.05
4	Navy	456761	0.282	0.3	0.05
5	Marine Corps	173342	0.107	0.3	0.05
6	Air Force	414489	0.256	0.3	0.05
7	Coast Guard	36378	0.022	0.3	0.05
8	Male * non-Hispanic White	1018348	0.628	0.3	0.05
9	Male * non-Hispanic Black	252021	0.156	0.3	0.05
10	Male * Hispanic (any race)	78539	0.048	0.3	0.05
11	Male * Other + Native American + Asian/Pacific Islander	68121	0.042	0.3	0.05
12	Female * non-Hispanic White	118704	0.073	0.5	0.05
13	Female * non-Hispanic Black	59615	0.037	0.5	0.05
14	Female * Hispanic (any race)	9841	0.006	0.5	0.05
15	Female * Other + Native American + Asian/Pacific Islander	9270	0.006	0.5	0.05
16	Male * Army	464003	0.286	0.3	0.05
17	Male * Navy	404497	0.250	0.3	0.05
18	Male * Marine Corps	165600	0.102	0.3	0.05
19	Male * Air Force	349613	0.216	0.3	0.05
20	Female * Army	69486	0.043	0.5	0.03
21	Female * Navy	52264	0.032	0.5	0.03
22	Female * Marine Corps	7742	0.005	0.5	0.03
23	Female * Air Force	64876	0.040	0.5	0.03
24	Male * Coast Guard	33316	0.021	0.3	0.05
25	Female * Coast Guard	3062	0.002	0.5	0.03
26	Male * Army * E1 + E2 + E3	100425	0.062	0.3	0.06
27	Male * Navy * E1 + E2 + E3	97613	0.060	0.3	0.06
28	Male * Marine Corps * E1 + E2 + E3	73363	0.045	0.3	0.06
29	Male * Air Force * E1 + E2 + E3	60348	0.037	0.3	0.06
30	Male * Coast Guard * E1 + E2 + E3	5667	0.003	0.3	0.06
31	Male * Army * E4 + E5 + E6 + E7 + E8 + E9	290262	0.179	0.3	0.06
32	Male * Navy * E4 + E5 + E6 + E7 + E8 + E9	254684	0.157	0.3	0.06
33	Male * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	75111	0.046	0.3	0.06
34	Male * Air Force * E4 + E5 + E6 + E7 + E8 + E9	222169	0.137	0.3	0.06
35	Male * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	20820	0.013	0.3	0.06
36	Male * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	73316	0.045	0.3	0.06
37	Male * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	52200	0.032	0.3	0.06

<sup>7</sup> The domain sizes exclude 6,479 individuals classified into the unknown stratum.

\* Crossed with.

+ Groups that were combined.

**Table B-1. (continued)**

Domain Number	Domain Label	Domain Size	Population Proportion	Prevalence	Precision Constraint
38	Male * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	17126	0.011	0.3	0.06
39	Male * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	67096	0.041	0.3	0.06
40	Male * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	6829	0.004	0.3	0.06
41	Female * Army * E1 + E2 + E3	17621	0.011	0.5	0.05
42	Female * Navy * E1 + E2 + E3	18622	0.011	0.5	0.05
43	Female * Marine Corps * E1 + E2 + E3	3133	0.002	0.5	0.05
44	Female * Air Force * E1 + E2 + E3	16077	0.010	0.5	0.05
45	Female * Coast Guard * E1 + E2 + E3	961	0.001	0.5	0.05
46	Female * Army * E4 + E5 + E6 + E7 + E8 + E9	40947	0.025	0.5	0.05
47	Female * Navy * E4 + E5 + E6 + E7 + E8 + E9	25838	0.016	0.5	0.05
48	Female * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	3957	0.002	0.5	0.05
49	Female * Air Force * E4 + E5 + E6 + E7 + E8 + E9	36598	0.023	0.5	0.05
50	Female * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	1602	0.001	0.5	0.05
51	Female * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	10918	0.007	0.5	0.05
52	Female * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	7804	0.005	-0.5	0.05
53	Female * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	652	0.000	0.5	0.05
54	Female * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	12201	0.008	0.5	0.05
55	Female * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	499	0.000	0.5	0.05

**Table B-2. Precision Requirements for the Form B Survey**

<b>Domain Number</b>	<b>Domain Label</b>	<b>Domain Size<sup>8</sup></b>	<b>Population Proportion</b>	<b>Prevalence</b>	<b>Precision Constraint</b>
1	Male	1472653	0.873	0.3	0.02
2	Female	208188	0.123	0.5	0.02
3	US	1344718	0.797	0.3	0.03
4	OVERSEAS	336123	0.199	0.3	0.03
5	Army	533489	0.316	0.3	0.05
6	Navy	456761	0.271	0.3	0.05
7	Marine Corps	173342	0.103	0.3	0.05
8	Air Force	414489	0.246	0.3	0.05
9	Coast Guard	36378	0.022	0.3	0.05
10	AGR/TAR	66382	0.039	0.3	0.05
11	Male * First Quartile-low 1	217536	0.129	0.3	0.08
12	Male * First Quartile-low 2	249692	0.148	0.3	0.08
13	Male * First Quartile-low 3	305709	0.181	0.3	0.08
14	Male * First Quartile-low 4	69033	0.041	0.3	0.08
15	Male * Second Quartile	248954	0.148	0.3	0.08
16	Male * Third Quartile	195803	0.116	0.3	0.08
17	Male * Fourth Quartile	105306	0.062	0.3	0.08
18	Female * First Quartile-low 1	3351	0.002	0.5	0.08
19	Female * First Quartile-low 2	11503	0.007	0.5	0.08
20	Female * First Quartile-low 3	22973	0.014	0.5	0.08
21	Female * First Quartile-low 4	7980	0.005	0.5	0.08
22	Female * Second Quartile	41164	0.024	0.5	0.08
23	Female * Third Quartile	54687	0.032	0.5	0.08
24	Female * Fourth Quartile	53856	0.032	0.5	0.08
25	Male * E1 + E2 + E3	338247	0.200	0.3	0.05
26	Male * E4	283456	0.168	0.3	0.05
27	Male * E5 + E6	457061	0.271	0.3	0.05
28	Male * E7 + E8 + E9	166717	0.099	0.3	0.05
29	Male * O1 + O2 + O3	123479	0.073	0.3	0.05
30	Male * O4 + O5 + O6	84510	0.050	0.3	0.05
31	Female * E1 + E2 + E3	56628	0.034	0.5	0.03
32	Female * E4	46032	0.027	0.5	0.03
33	Female * E5 + E6	57301	0.034	0.5	0.03
34	Female * E7 + E8 + E9	15112	0.009	0.5	0.03
35	Female * O1 + O2 + O3	22170	0.013	0.5	0.03
36	Female * O4 + O5 + O6	10031	0.006	0.5	0.03
37	Male * non-Hispanic White	1063645	0.630	0.3	0.05
38	Male * non-Hispanic Black	257717	0.153	0.3	0.05
39	Male * Hispanic (any race)	81269	0.048	0.3	0.05
40	Male * Other + Native American + Asian & Pacific Islander	70022	0.041	0.3	0.05
41	Female * non-Hispanic White	125854	0.075	0.5	0.05
42	Female * non-Hispanic Black	62237	0.037	0.5	0.05
43	Female * Hispanic (any race)	10384	0.006	0.5	0.05

<sup>8</sup> The domain sizes exclude 6,479 individuals classified into the unknown stratum.



**Table B-2. (continued)**

Domain Number	Domain Label	Domain Size	Population Proportion	Prevalence	Precision Constraint
44	Female * Other + Native American + Asian & Pacific Islander	9713	0.006	0.5	0.05
45	Male * US	1174019	0.696	0.3	0.03
46	Male * OVERSEAS	298052	0.177	0.3	0.03
47	Female * US	169934	0.101	0.5	0.03
48	Female * OVERSEAS	38071	0.023	0.5	0.03
49	Male * Army	464003	0.275	0.3	0.05
50	Male * Navy	404497	0.240	0.3	0.05
51	Male * Marine Corps	165600	0.098	0.3	0.05
52	Male * Air Force	349613	0.207	0.3	0.05
53	Female * Army	69486	0.041	0.5	0.05
54	Female * Navy	52264	0.031	0.5	0.05
55	Female * Marine Corps	7742	0.005	0.5	0.05
56	Female * Air Force	64876	0.038	0.5	0.05
57	Female * Army * E1 + E2 + E3	17621	0.010	0.5	0.05
58	Female * Army * E4	18026	0.011	0.5	0.1
59	Female * Army * E5 + E6	17698	0.010	0.5	0.1
60	Female * Army * E7 + E8 + E9	5223	0.003	0.5	0.1
61	Female * Army * O1 + O2 + O3	7290	0.004	0.5	0.1
62	Female * Army * O4 + O5 + O6	3076	0.002	0.5	0.1
63	Female * Navy * E1 + E2 + E3	18622	0.011	0.5	0.05
64	Female * Navy * E4	8960	0.005	0.5	0.1
65	Female * Navy * E5 + E6	14435	0.009	0.5	0.1
66	Female * Navy * E7 + E8 + E9	2443	0.001	0.5	0.1
67	Female * Navy * O1 + O2 + O3	5153	0.003	0.5	0.1
68	Female * Navy * O4 + O5 + O6	2529	0.001	0.5	0.1
69	Female * Marine Corps * E1 + E2 + E3	3133	0.002	0.5	0.05
70	Female * Marine Corps * E4	1418	0.001	0.5	0.1
71	Female * Marine Corps * E5 + E6	2063	0.001	0.5	0.1
72	Female * Marine Corps * E7 + E8 + E9	476	0.000	0.5	0.1
73	Female * Marine Corps * O1 + O2 + O3	382	0.000	0.5	0.1
74	Female * Marine Corps * O4 + O5 + O6	154	0.000	0.5	0.1
75	Female * Air Force * E1 + E2 + E3	16077	0.010	0.5	0.05
76	Female * Air Force * E4	16384	0.010	0.5	0.1
77	Female * Air Force * E5 + E6	15907	0.009	0.5	0.1
78	Female * Air Force * E7 + E8 + E9	4307	0.003	0.5	0.1
79	Female * Air Force * O1 + O2 + O3	8535	0.005	0.5	0.1
80	Female * Air Force * O4 + O5 + O6	3666	0.002	0.5	0.1
81	Male * Coast Guard	33316	0.020	0.3	0.05
82	Female * Coast Guard	3062	0.002	0.5	0.05
83	Female * Coast Guard * E4	554	0.000	0.5	0.1
84	Female * Coast Guard * E5 + E6	928	0.001	0.5	0.1
85	Female * Coast Guard * E7 + E8 + E9	120	0.000	0.5	0.1
86	Female * Coast Guard * O1 + O2 + O3	402	0.000	0.5	0.1

**Table B-2. (continued)**

Domain Number	Domain Label	Domain Size	Population Proportion	Prevalence	Precision Constraint
87	Female * Coast Guard * O4 + O5 + O6	75	0.000	0.5	0.1
88	Male * AGR/TAR	55624	0.033	0.3	0.05
89	Female * AGR/TAR	10758	0.006	0.5	0.05
90	Male * Army * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	390687	0.232	0.3	0.06
91	Male * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	73316	0.043	0.3	0.06
92	Male * Navy * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	352297	0.209	0.3	0.06
93	Male * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	52200	0.031	0.3	0.06
94	Male * Marine Corps * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	148474	0.088	0.3	0.06
95	Male * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	17126	0.010	0.3	0.06
96	Male * Air Force * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	282517	0.167	0.3	0.06
97	Male * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	67096	0.040	0.3	0.06
98	Female * Army * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	58568	0.035	0.5	0.05
99	Female * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	10918	0.006	0.5	0.05
100	Female * Navy * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	44460	0.026	0.5	0.05
101	Female * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	7804	0.005	0.5	0.05
102	Female * Marine Corps * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	7090	0.004	0.5	0.05
103	Female * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + ..	652	0.000	0.5	0.05
104	Female * Air Force * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	52675	0.031	0.5	0.05
105	Female * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	12201	0.007	0.5	0.05
106	Male * Coast Guard * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	26487	0.016	0.3	0.06
107	Male * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	6829	0.004	0.3	0.06
108	Female * Coast Guard * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	2563	0.002	0.5	0.05
109	Female * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	499	0.000	0.5	0.05

**Table B-2. (continued)**

Domain Number	Domain Label	Domain Size	Population Proportion	Prevalence	Precision Constraint
110	Male * AGR/TAR * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	45019	0.027	0.3	0.06
111	Male * AGR/TAR * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	10605	0.006	0.3	0.06
112	Female * AGR/TAR * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	9717	0.006	0.5	0.05
113	Female * AGR/TAR * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	1041	0.001	0.5	0.05
114	Male * Army * E1 + E2 + E3	100425	0.060	0.3	0.06
115	Male * Navy * E1 + E2 + E3	97613	0.058	0.3	0.06
116	Male * Marine Corps * E1 + E2 + E3	73363	0.043	0.3	0.06
117	Male * Air Force * E1 + E2 + E3	60348	0.036	0.3	0.06
118	Male * Coast Guard * E1 + E2 + E3	5667	0.003	0.3	0.06
119	Male * Army * E4 + E5 + E6 + E7 + E8 + E9	290262	0.172	0.3	0.06
120	Male * Navy * E4 + E5 + E6 + E7 + E8 + E9	254684	0.151	0.3	0.06
121	Male * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	75111	0.045	0.3	0.06
122	Male * Air Force * E4 + E5 + E6 + E7 + E8 + E9	222169	0.132	0.3	0.06
123	Male * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	20820	0.012	0.3	0.06
124	Female * Coast Guard * E1 + E2 + E3	961	0.001	0.5	0.05

**Table B-3. Precision Requirements for the Form C Survey**

<b>Domain Number</b>	<b>Domain Label</b>	<b>Domain Size<sup>9</sup></b>	<b>Population Proportion</b>	<b>Prevalence</b>	<b>Precision Constraint</b>
1	Male	1472653	0.873	0.5	0.02
2	Female	208188	0.123	0.5	0.02

<sup>9</sup> The domain sizes exclude 6,479 individuals classified into the unknown stratum.

**Table B-4. Stratum Definitions**

Stratum Number <sup>10</sup>	Stratum Size	Dimensions		Levels
1	108515	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	
2	34104	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	non-Hispanic Black	
3	8703	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	Hispanic (any race)	
4	8170	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other	
5	13189	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Female	
		Race/Ethnicity	non-Hispanic White	
6	14645	Service/Component	Army	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Female	
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other	
7	79351	Service/Component	Army	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	
8	47813	Service/Component	Army	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	non-Hispanic Black	
9	8182	Service/Component	Army	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	Hispanic (any race)	
10	8731	Service/Component	Army	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other	

<sup>10</sup> Form A excludes strata 162 through 179.

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
11	6036	Service/Component Location Paygrade Gender Race/Ethnicity	Army US E5+E6+E7+E8+E9 Female non-Hispanic White
12	11381	Service/Component Location Paygrade Gender Race/Ethnicity	Army US E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
13	50231	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic White
14	5978	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic Black
15	1653	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Hispanic (any race)
16	2372	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Native American+Asian & Pacific Islander+Other
17	6581	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic White
18	2576	Service/Component Location Paygrade Gender Race/Ethnicity	Army US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
19	29134	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Male non-Hispanic White
20	10348	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Male non-Hispanic Black

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
21	2208	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Male Hispanic (any race)
22	2405	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Male Native American+Asian & Pacific Islander+Other
23	3554	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Female non-Hispanic White
24	4259	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
25	22126	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White
26	15479	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic Black
27	2406	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Male Hispanic (any race)
28	3012	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other
29	1728	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic White
30	3776	Service/Component Location Paygrade Gender Race/Ethnicity	Army OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other

**Table B-4. (continued)**

Stratum Number	Stratum Size	Dimensions	Levels
31	10621	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic White
32	1389	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
33	463	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
34	609	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
35	1216	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic White
36	545	Service/Component	Army
		Location	OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
37	81660	Service/Component	Navy
		Location	US
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic White
38	23675	Service/Component	Navy
		Location	US
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
39	10695	Service/Component	Navy
		Location	US
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
40	5090	Service/Component	Navy
		Location	US
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other



**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
41	12854	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E1+E2+E3+E4 Female non-Hispanic White
42	9236	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
43	101151	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Male non-Hispanic White
44	20339	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Male non-Hispanic Black
45	6462	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Male Hispanic (any race)
46	9357	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other
47	7972	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Female non-Hispanic White
48	4427	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
49	37235	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic White
50	1883	Service/Component Location Paygrade Gender Race/Ethnicity	Navy US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic Black

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
51	1138	Service/Component	Navy
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
52	1344	Service/Component	Navy
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
53	5608	Service/Component	Navy
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic White
54	1080	Service/Component	Navy
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
55	31499	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic White
56	8648	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
57	5125	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
58	2720	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
59	3205	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Female
		Race/Ethnicity	non-Hispanic White
60	2287	Service/Component	Navy
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
61	31160	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White
62	6906	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic Black
63	2623	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Male Hispanic (any race)
64	5187	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other
65	2687	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic White
66	1792	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
67	9172	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic White
68	571	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic Black
69	403	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Hispanic (any race)
70	454	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Native American+Asian & Pacific Islander+Other

**Table B-4. (continued)**

Stratum Number	Stratum Size	Dimensions	Levels
71	919	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic White
72	197	Service/Component Location Paygrade Gender Race/Ethnicity	Navy OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
73	59603	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Male non-Hispanic White
74	10976	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Male non-Hispanic Black
75	8040	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Male Hispanic (any race)
76	3083	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Male Native American+Asian & Pacific Islander+Other
77	2385	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Female non-Hispanic White
78	1485	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
79	25662	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Male non-Hispanic White
80	9620	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Male non-Hispanic Black

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
81	3015	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Male Hispanic (any race)
82	1150	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other
83	1125	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Female non-Hispanic White
84	972	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
85	13095	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic White
86	797	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic Black
87	489	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Hispanic (any race)
88	352	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Native American+Asian & Pacific Islander+Other
89	489	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic White
90	92	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps US WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
91	14180	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Male non-Hispanic White
92	2497	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Male non-Hispanic Black
93	1997	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Male Hispanic (any race)
94	769	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Male Native American+Asian & Pacific Islander+Other
95	412	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Female non-Hispanic White
96	269	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
97	5068	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White
98	1907	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic Black
99	613	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E5+E6+E7+E8+E9 Male Hispanic (any race)
100	294	Service/Component Location Paygrade Gender Race/Ethnicity	Marine Corps OVERSEAS E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other

**Table B-4. (continued)**

Stratum Number	Stratum Size	Dimensions		Levels
101	218	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Female	
		Race/Ethnicity	non-Hispanic White	
102	224	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Female	
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other	
103	2127	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	
104	133	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Male	
		Race/Ethnicity	non-Hispanic Black	
105	73	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Male	
		Race/Ethnicity	Hispanic (any race)	
106	60	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Male	
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other	
107	71	Service/Component	Marine Corps	
		Location	OVERSEAS	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Female	
		Race/Ethnicity	non-Hispanic White+non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other	
108	88265	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	
109	13548	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	non-Hispanic Black	
110	4256	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	Hispanic (any race)	

**Table B-4. (continued)**

Stratum Number	Stratum Size	Dimensions		Levels
111	3029	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Male	
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other	
112	19696	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Female	
		Race/Ethnicity	non-Hispanic White	
113	7743	Service/Component	Air Force	
		Location	US	
		Paygrade	E1+E2+E3+E4	
		Gender	Female	
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other	
114	91100	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	
115	20082	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	non-Hispanic Black	
116	4820	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	Hispanic (any race)	
117	4108	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Male	
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other	
118	10568	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Female	
		Race/Ethnicity	non-Hispanic White	
119	5556	Service/Component	Air Force	
		Location	US	
		Paygrade	E5+E6+E7+E8+E9	
		Gender	Female	
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other	
120	53594	Service/Component	Air Force	
		Location	US	
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6	
		Gender	Male	
		Race/Ethnicity	non-Hispanic White	



**Table B-4. (continued)**

Stratum Number	Stratum Size	Dimensions	Levels
121	2803	Service/Component	Air Force
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
122	1127	Service/Component	Air Force
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
123	2065	Service/Component	Air Force
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
124	8937	Service/Component	Air Force
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic White
125	1841	Service/Component	Air Force
		Location	US
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+O..
126	18048	Service/Component	Air Force
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic White
127	3541	Service/Component	Air Force
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
128	840	Service/Component	Air Force
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
129	736	Service/Component	Air Force
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
130	3477	Service/Component	Air Force
		Location	OVERSEAS
		Paygrade	E1+E2+E3+E4
		Gender	Female
		Race/Ethnicity	non-Hispanic White

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
131	1545	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
132	20969	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White
133	6523	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic Black
134	1305	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Male Hispanic (any race)
135	1347	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Male Native American+Asian & Pacific Islander+Other
136	2319	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic White
137	1771	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS E5+E6+E7+E8+E9 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
138	6619	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic White
139	441	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male non-Hispanic Black
140	169	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Hispanic (any race)

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
141	278	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Male Native American+Asian & Pacific Islander+Other
142	1157	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic White
143	266	Service/Component Location Paygrade Gender Race/Ethnicity	Air Force OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
144	9538	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Male non-Hispanic White
145	687	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Male non-Hispanic Black
146	904	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Male Hispanic (any race)
147	798	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Male Native American+Asian & Pacific Islander+Other
148	1131	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Female non-Hispanic White
149	384	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
150	12344	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
151	1145	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
152	660	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
153	411	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
154	745	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Female
		Race/Ethnicity	non-Hispanic White
155	303	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
156	6281	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic White
157	188	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
158	170	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
159	190	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
160	435	Service/Component	Coast Guard
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic White

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
161	64	Service/Component Location Paygrade Gender Race/Ethnicity	Coast Guard US+OVERSEAS WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
162	2649	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Male non-Hispanic White
163	540	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Male non-Hispanic Black
164	345	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Male Hispanic (any race)
165	135	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Male Native American+Asian & Pacific Islander+Other
166	548	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Female non-Hispanic White
167	356	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E1+E2+E3+E4 Female non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
168	33187	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic White
169	4664	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E5+E6+E7+E8+E9 Male non-Hispanic Black
170	2092	Service/Component Location Paygrade Gender Race/Ethnicity	AGR/TAR US+OVERSEAS E5+E6+E7+E8+E9 Male Hispanic (any race)

**Table B-4. (continued)**

<b>Stratum Number</b>	<b>Stratum Size</b>	<b>Dimensions</b>	<b>Levels</b>
171	1407	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
172	5784	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Female
		Race/Ethnicity	non-Hispanic White
173	3029	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	E5+E6+E7+E8+E9
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
174	9461	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic White
175	492	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	non-Hispanic Black
176	293	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Hispanic (any race)
177	359	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Male
		Race/Ethnicity	Native American+Asian & Pacific Islander+Other
178	818	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic White
179	223	Service/Component	AGR/TAR
		Location	US+OVERSEAS
		Paygrade	WO1+WO2+WO3+WO4+WO5+O1+O2+O3+O4+O5+O6
		Gender	Female
		Race/Ethnicity	non-Hispanic Black+Hispanic (any race)+Native American+Asian & Pacific Islander+Other
180	6479	Unknown	

**Table B-5. Design Response Rates and Cost Coefficients**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.380	\$11.30	\$10.50
2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.300	\$13.97	\$12.97
3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.410	\$10.57	\$9.82
4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.410	\$10.57	\$9.82
5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.390	\$11.05	\$10.26
6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.310	\$13.56	\$12.59
7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.520	\$8.61	\$8.01
8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.430	\$10.14	\$9.42
9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.490	\$9.06	\$8.42
10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.490	\$9.06	\$8.42
11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.530	\$8.47	\$7.88
12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.440	\$9.94	\$9.24
13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.680	\$6.89	\$6.41
14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$6.82
15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.690	\$6.81	\$6.34
16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.690	\$6.81	\$6.34
17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.690	\$6.81	\$6.34
18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.640	\$7.24	\$6.74
19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.380	\$11.30	\$10.50
20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.300	\$13.97	\$12.97
21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.410	\$10.57	\$9.82
22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.410	\$10.57	\$9.82

**Table B-5. (continued)**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.390	\$11.05	\$10.26
24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.310	\$13.56	\$12.59
25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.520	\$8.61	\$8.01
26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.430	\$10.14	\$9.42
27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.490	\$9.06	\$8.42
28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.490	\$9.06	\$8.42
29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.530	\$8.47	\$7.88
30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.440	\$9.94	\$9.24
31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.680	\$6.89	\$6.41
32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$6.82
33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.690	\$6.81	\$6.34
34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.690	\$6.81	\$6.34
35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.690	\$6.81	\$6.34
36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.640	\$7.24	\$6.74
37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.430	\$10.14	\$9.42
38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.310	\$13.56	\$12.59
39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.450	\$9.75	\$9.06
40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06
41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.440	\$9.94	\$9.24
42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.320	\$13.18	\$12.24
43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.600	\$7.64	\$7.10
44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.440	\$9.94	\$9.24



**Table B-5. (continued)**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.560	\$8.09	\$7.52
46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.560	\$8.09	\$7.52
47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic White	0.610	\$7.53	\$7.01
48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06
49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.720	\$6.58	\$6.13
50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$6.82
51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.720	\$6.58	\$6.13
52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.720	\$6.58	\$6.13
53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.730	\$6.51	\$6.06
54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.640	\$7.24	\$6.74
55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic White	0.430	\$10.14	\$9.42
56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	0.310	\$13.56	\$12.59
57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.450	\$9.75	\$9.06
58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06
59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non- Hispanic White	0.440	\$9.94	\$9.24
60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.320	\$13.18	\$12.24
61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.600	\$7.64	\$7.10
62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.440	\$9.94	\$9.24
63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.560	\$8.09	\$7.52
64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.560	\$8.09	\$7.52
65	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.610	\$7.53	\$7.01
66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06

Table B-5. (continued)

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.720	\$6.58	\$6.13
68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$6.82
69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.720	\$6.58	\$6.13
70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.720	\$6.58	\$6.13
71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.730	\$6.51	\$6.06
72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.640	\$7.24	\$6.74
73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.380	\$11.30	\$10.50
74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.290	\$14.41	\$13.37
75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.310	\$13.56	\$12.59
76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.310	\$13.56	\$12.59
77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.390	\$11.05	\$10.26
78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.300	\$13.97	\$12.97
79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.510	\$8.75	\$8.14
80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.440	\$9.94	\$9.24
81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.440	\$9.94	\$9.24
82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.440	\$9.94	\$9.24
83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.520	\$8.61	\$8.01
84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06
85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.710	\$6.66	\$6.19
86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.700	\$6.73	\$6.27
87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.700	\$6.73	\$6.27

**Table B-5. (continued)**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.700	\$6.73	\$6.27
89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.720	\$6.58	\$6.13
90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.710	\$6.66	\$6.19
91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.380	\$11.30	\$10.50
92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.290	\$14.41	\$13.37
93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.310	\$13.56	\$12.59
94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.310	\$13.56	\$12.59
95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.390	\$11.05	\$10.26
96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.300	\$13.97	\$12.97
97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.510	\$8.75	\$8.14
98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.440	\$9.94	\$9.24
99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.440	\$9.94	\$9.24
100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.440	\$9.94	\$9.24
101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.520	\$8.61	\$8.01
102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.06
103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.710	\$6.66	\$6.19
104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.700	\$6.73	\$6.27
105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.700	\$6.73	\$6.27
106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.700	\$6.73	\$6.27
107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & P..	0.720	\$6.58	\$6.13
108	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.570	\$7.97	\$7.41

Table B-5. (continued)

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
109	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.480	\$9.22	\$8.57
110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.610	\$7.53	\$7.01
111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.610	\$7.53	\$7.01
112	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.580	\$7.86	\$7.31
113	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.490	\$9.06	\$8.42
114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.710	\$6.66	\$6.19
115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.550	\$8.21	\$7.64
116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.600	\$7.64	\$7.10
117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.600	\$7.64	\$7.10
118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.720	\$6.58	\$6.13
119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.560	\$8.09	\$7.52
120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.730	\$6.51	\$6.06
121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.680	\$6.89	\$6.41
122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.720	\$6.58	\$6.13
123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.720	\$6.58	\$6.13
124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.740	\$6.44	\$5.99
125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.680	\$6.89	\$6.41
126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.570	\$7.97	\$7.41
127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.480	\$9.22	\$8.57
128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.610	\$7.53	\$7.01
129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.610	\$7.53	\$7.01
130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.580	\$7.86	\$7.31

**Table B-5. (continued)**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.490	\$9.06	\$8.42
132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.710	\$6.66	\$6.19
133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.550	\$8.21	\$7.64
134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.600	\$7.64	\$7.10
135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.600	\$7.64	\$7.10
136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.720	\$6.58	\$6.58
137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.560	\$8.09	\$8.09
138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.730	\$6.51	\$6.51
139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.680	\$6.89	\$6.89
140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.720	\$6.58	\$6.58
141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.720	\$6.58	\$6.58
142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.740	\$6.44	\$6.44
143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.680	\$6.89	\$6.89
144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.480	\$9.22	\$9.22
145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.280	\$14.87	\$14.87
146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.280	\$14.87	\$14.87
147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.280	\$14.87	\$14.87
148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.490	\$9.06	\$9.06
149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.290	\$14.41	\$14.41
150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.720	\$6.58	\$6.58
151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.500	\$8.90	\$8.90
152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.450	\$9.75	\$9.75

**Table B-5. (continued)**

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.75
154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.730	\$6.51	\$6.51
155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.510	\$8.75	\$8.75
156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.750	\$6.37	\$6.37
157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$7.34
158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.500	\$8.90	\$8.90
159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.500	\$8.90	\$8.90
160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.760	\$6.30	\$6.30
161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander..	0.640	\$7.24	\$7.24
162	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	0.480	\$9.22	\$9.22
163	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	0.280	\$14.87	\$14.87
164	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	0.280	\$14.87	\$14.87
165	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	0.280	\$14.87	\$14.87
166	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	0.490	\$9.06	\$9.06
167	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.290	\$14.41	\$14.41
168	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	0.720	\$6.58	\$6.58
169	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	0.500	\$8.90	\$8.90
170	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	0.450	\$9.75	\$9.75
171	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	0.450	\$9.75	\$9.75
172	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	0.730	\$6.51	\$6.51
173	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.510	\$8.75	\$8.75

Table B-5. (continued)

Stratum Number	Stratum Label	Response Rate	Cost Coefficients	
			Forms A & B	Form C
174	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	0.750	\$6.37	\$6.37
175	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	0.630	\$7.34	\$7.34
176	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.500	\$8.90	\$8.90
177	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.500	\$8.90	\$8.90
178	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	0.760	\$6.30	\$6.30
179	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	0.640	\$7.24	\$7.24
180	Unknown	0.530	\$8.47	\$8.47

**Table B-6. Allocation Solutions**

Stratum Number	Stratum Label	Form A	Form B	Form C
1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	289.0	279.4	156.5
2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	79.2	79.3	44.2
3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	36.3	32.2	13.0
4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	37.6	34.2	12.2
5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	292.4	319.1	138.8
6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	923.3	653.5	139.2
7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	42.4	149.8	131.0
8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	35.9	90.8	72.8
9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	27.2	27.9	13.2
10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	35.9	35.2	14.1
11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	15.7	774.5	72.5
12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	683.9	1279.0	126.3
13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	148.0	187.8	92.7
14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	17.5	20.8	10.7
15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	7.9	7.7	3.1
16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	13.2	12.5	4.4
17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	183.5	1112.7	88.1
18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	275.9	418.2	33.5
19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	74.3	82.1	42.0
20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	23.3	26.4	13.4
21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	9.1	8.6	3.3
22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	10.9	10.4	3.6
23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	78.3	87.7	37.4



**Table B-6. (continued)**

Stratum Number	Stratum Label	Form A	Form B	Form C
24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	271.5	192.6	40.5
25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	11.8	52.0	36.5
26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	11.6	34.7	23.6
27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	8.0	8.8	3.9
28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	12.4	12.8	4.8
29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	4.5	207.3	20.8
30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	229.5	415.9	41.9
31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	31.3	41.8	19.6
32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	4.1	5.0	2.5
33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2.2	2.2	0.9
34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	3.4	3.3	1.1
35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	33.9	190.3	16.3
36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	59.3	87.5	7.1
37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	217.2	213.3	124.3
38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	54.3	53.2	31.2
39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	44.6	40.1	16.6
40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	24.1	22.3	7.9
41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	246.7	269.2	142.6
42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	630.9	460.9	89.0
43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	63.0	193.4	177.3
44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	16.1	38.8	31.3
45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	22.8	22.3	11.0
46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	40.8	41.0	15.9

**Table B-6. (continued)**

<b>Stratum Number</b>	<b>Stratum Label</b>	<b>Form A</b>	<b>Form B</b>	<b>Form C</b>
47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	72.4	920.6	101.6
48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	313.8	373.8	49.6
49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	154.1	165.7	70.3
50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	7.5	6.6	3.4
51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6.4	5.5	2.1
52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	8.5	7.5	2.5
53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	255.8	1018.1	76.8
54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	137.1	180.7	14.0
55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	81.5	86.3	47.9
56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	19.8	21.1	11.4
57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	21.2	19.5	8.0
58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	12.6	11.8	4.2
59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	59.2	73.7	35.6
60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	164.6	122.1	22.0
61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	19.4	75.1	54.6
62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	5.5	15.6	10.6
63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	9.2	9.8	4.5
64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	22.6	23.3	8.8
65	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	24.4	290.9	34.2
66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	131.6	137.5	20.1
67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	38.0	41.2	17.3
68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2.3	2.0	1.0
69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2.3	2.0	0.8

**Table B-6. (continued)**

Stratum Number	Stratum Label	Form A	Form B	Form C
70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2.9	2.6	0.9
71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	41.9	147.5	12.6
72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	26.4	28.7	2.6
73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	196.7	194.4	85.9
74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	32.5	33.0	14.0
75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	32.4	30.1	10.6
76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	13.9	12.8	4.1
77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	384.0	395.4	25.1
78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	238.5	228.1	13.9
79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	82.4	81.8	42.0
80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	29.5	29.6	14.8
81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	13.1	12.0	4.6
82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	5.7	5.2	1.8
83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	106.0	447.1	13.4
84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	110.1	327.4	10.9
85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	170.3	170.2	24.6
86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	10.3	10.2	1.5
87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6.6	6.4	0.9
88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	4.8	4.7	0.7
89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	287.4	556.3	6.7
90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	54.7	70.3	1.2

**Table B-6. (continued)**

<b>Stratum Number</b>	<b>Stratum Label</b>	<b>Form A</b>	<b>Form B</b>	<b>Form C</b>
91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	46.9	49.8	20.4
92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	7.4	8.0	3.2
93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	8.1	7.8	2.6
94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3.5	3.3	1.0
95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	66.1	67.9	4.3
96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	42.7	40.5	2.5
97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	16.3	17.8	8.3
98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	5.9	6.4	2.9
99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	2.7	2.6	0.9
100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1.4	1.4	0.5
101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	20.5	73.7	2.6
102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	24.2	75.6	2.5
103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	27.7	27.9	4.0
104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	1.7	1.7	0.2
105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1.0	1.0	0.1
106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	0.8	0.8	0.1
107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & P..	41.8	75.8	1.0
108	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	409.3	402.3	151.5
109	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	56.9	58.6	21.6
110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	25.9	24.4	7.5
111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	20.0	19.1	5.3
112	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	585.6	606.6	245.7
113	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	672.6	478.0	90.0

**Table B-6. (continued)**

Stratum Number	Stratum Label	Form A	Form B	Form C
114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	61.0	203.8	171.0
115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	17.5	50.5	34.0
116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	17.5	18.2	8.4
117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	18.4	18.6	7.2
118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	52.2	1392.9	144.0
119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	429.4	680.4	68.3
120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	173.1	221.4	101.7
121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	9.0	11.6	5.2
122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	5.6	6.0	2.1
123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	11.9	11.1	3.9
124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	244.5	1531.1	123.1
125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	230.3	340.3	24.5
126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	72.2	76.4	31.0
127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	12.0	13.6	5.7
128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	4.6	4.5	1.5
129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	4.2	4.1	1.3
130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	93.9	105.4	43.4
131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	120.7	87.4	18.0
132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	14.0	57.0	39.4
133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	5.7	18.1	11.0
134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	4.7	5.3	2.3
135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	6.0	6.5	2.4
136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	11.5	287.6	31.6

**Table B-6. (continued)**

<b>Stratum Number</b>	<b>Stratum Label</b>	<b>Form A</b>	<b>Form B</b>	<b>Form C</b>
137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	135.9	201.7	21.8
138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	21.4	30.4	12.6
139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	1.4	2.0	0.8
140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	0.8	1.0	0.3
141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1.6	1.6	0.5
142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	31.7	199.7	15.9
143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	34.1	45.4	3.5
144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	481.6	481.6	15.2
145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	27.0	27.0	0.9
146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	38.4	38.4	1.1
147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	35.1	35.1	1.0
148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	656.7	660.5	13.1
149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	174.6	172.8	3.5
150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	102.4	102.8	23.3
151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	8.2	8.4	1.9
152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	5.0	4.9	1.0
153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	3.2	3.2	0.6
154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	154.4	1226.6	10.2
155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	59.5	342.1	3.6
156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	208.3	208.5	12.1
157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	5.8	5.8	0.3

Table B-6. (continued)

Stratum Number	Stratum Label	Form A	Form B	Form C
158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	4.8	4.8	0.3
159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5.4	5.4	0.3
160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	336.7	1063.1	6.1
161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander..	47.2	65.6	0.8
162	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	.	10.9	4.2
163	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	.	1.9	0.7
164	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	.	1.4	0.4
165	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	.	0.6	0.2
166	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	.	12.9	6.4
167	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	.	17.4	3.3
168	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	.	169.5	62.6
169	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	.	20.8	7.6
170	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	.	10.3	3.2
171	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	.	7.6	2.2
172	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	.	867.0	79.2
173	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	.	389.9	35.8
174	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	.	197.7	18.2
175	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	.	9.6	0.9
176	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	.	5.2	0.5
177	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	.	6.5	0.6
178	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	.	424.3	11.4

**Table B-6. (continued)**

Stratum Number	Stratum Label	Form A	Form B	Form C
179	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	.	106.2	2.9
180	Unknown	117.1	354.6	34.7



**Table B-7. Design Evaluation Form A**

Domain Number	Domain Label	Prevalence	Lagrange Ratio <sup>11</sup>	Expected Precision <sup>12</sup>	Design Effect <sup>13</sup>
1	Male	0.3	15	0.020	2.24
2	Female	0.3	0	0.015	2.99
3	Army	0.3	0	0.033	5.44
4	Navy	0.3	0	0.037	4.67
5	Marine Corps	0.3	0	0.036	3.17
6	Air Force	0.3	0	0.035	5.41
7	Coast Guard	0.3	0	0.038	4.01
8	Male * non-Hispanic White	0.3	0	0.025	2.42
9	Male * non-Hispanic Black	0.3	19	0.051	1.59
10	Male * Hispanic (any race)	0.3	61	0.051	1.15
11	Male * Other + Native American + Asian & Pacific Islander	0.3	75	0.051	1.12
12	Female * non-Hispanic White	0.5	0	0.026	3.05
13	Female * non-Hispanic Black	0.5	0	0.017	1.31
14	Female * Hispanic (any race)	0.5	0	0.050	2.13
15	Female * Other + Native American + Asian & Pacific Islander	0.5	89	0.051	2.18
16	Male * Army	0.3	0	0.038	1.69
17	Male * Navy	0.3	0	0.041	1.81
18	Male * Marine Corps	0.3	0	0.037	1.21
19	Male * Air Force	0.3	0	0.041	2.00
20	Female * Army	0.5	2	0.031	2.96
21	Female * Navy	0.5	0	0.029	1.77
22	Female * Marine Corps	0.5	5	0.030	1.26
23	Female * Air Force	0.5	8	0.031	2.51
24	Male * Coast Guard	0.3	0	0.041	1.86
25	Female * Coast Guard	0.5	0	0.030	1.30
26	Male * Army * E1 + E2 + E3	0.3	89	0.061	1.25
27	Male * Navy * E1 + E2 + E3	0.3	86	0.061	1.22
28	Male * Marine Corps * E1 + E2 + E3	0.3	67	0.061	1.13
29	Male * Air Force * E1 + E2 + E3	0.3	95	0.061	1.24
30	Male * Coast Guard * E1 + E2 + E3	0.3	99	0.061	1.23
31	Male * Army * E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.056	1.78
32	Male * Navy * E4 + E5 + E6 + E7 + E8 + E9	0.3	2	0.061	1.78
33	Male * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	0.3	44	0.061	1.12

<sup>11</sup> The precision constraints that determine the allocation solutions are identified by those final Lagrange multipliers that are most closely equal in value to the initial values described in Section 2.4.3, giving ratios close to one. Values in this column are the percentages that the final values are of the initial values. Constraints that are satisfied coincidentally to others have final Lagrange multiplier values of zero.

<sup>12</sup> The expected precision is calculated using the allocation solutions reported in Table B-6.

<sup>13</sup> The design effect is the ratio of the expected variance given this allocation to the variance that would be obtained for a domain if a simple random sample were drawn from the domain with the same number of observations.

Table B-7. (continued)

Domain Number	Domain Label	Prevalence	Lagrange Ratio	Expected Precision	Design Effect
34	Male * Air Force * E4 + E5 + E6 + E7 + E8 + E9	0.3	3	0.061	2.10
35	Male * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	0.3	36	0.061	1.90
36	Male * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	89	0.061	1.02
37	Male * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	94	0.061	1.01
38	Male * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	99	0.061	1.00
39	Male * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	92	0.061	1.01
40	Male * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	100	0.061	1.00
41	Female * Army * E1 + E2 + E3	0.5	37	0.051	1.97
42	Female * Navy * E1 + E2 + E3	0.5	41	0.051	1.79
43	Female * Marine Corps * E1 + E2 + E3	0.5	78	0.051	1.31
44	Female * Air Force * E1 + E2 + E3	0.5	62	0.051	1.87
45	Female * Coast Guard * E1 + E2 + E3	0.5	93	0.051	1.38
46	Female * Army * E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.048	4.30
47	Female * Navy * E4 + E5 + E6 + E7 + E8 + E9	0.5	15	0.051	2.32
48	Female * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	0.5	28	0.051	1.25
49	Female * Air Force * E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.050	3.48
50	Female * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	0.5	30	0.051	1.36
51	Female * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	59	0.051	1.49
52	Female * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	78	0.051	1.19
53	Female * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	99	0.051	1.00
54	Female * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	71	0.051	1.46
55	Female * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	99	0.051	1.00

**Table B-8. Design Evaluation Form B**

Domain Number	Domain Label	Prevalence	Lagrange Ratio <sup>14</sup>	Expected Precision <sup>15</sup>	Design Effect <sup>16</sup>
1	Male	0.3	0	0.014	1.34
2	Female	0.5	0	0.009	2.02
3	US	0.3	0	0.014	5.55
4	OVERSEAS	0.3	0	0.027	3.84
5	Army	0.3	0	0.023	4.42
6	Navy	0.3	0	0.025	3.97
7	Marine Corps	0.3	0	0.036	4.68
8	Air Force	0.3	0	0.023	4.51
9	Coast Guard	0.3	0	0.038	7.55
10	AGR/TAR	0.3	0	0.043	4.71
11	Male * First Quartile-low 1	0.3	0	0.042	1.66
12	Male * First Quartile-low 2	0.3	0	0.040	1.75
13	Male * First Quartile-low 3	0.3	0	0.035	1.70
14	Male * First Quartile-low 4	0.3	0	0.075	1.92
15	Male * Second Quartile	0.3	0	0.038	1.97
16	Male * Third Quartile	0.3	0	0.044	1.75
17	Male * Fourth Quartile	0.3	0	0.064	1.68
18	Female * First Quartile-low 1	0.5	0	0.077	2.86
19	Female * First Quartile-low 2	0.5	0	0.061	3.82
20	Female * First Quartile-low 3	0.5	0	0.041	3.91
21	Female * First Quartile-low 4	0.5	0	0.066	4.08
22	Female * Second Quartile	0.5	0	0.029	3.60
23	Female * Third Quartile	0.5	0	0.022	3.05
24	Female * Fourth Quartile	0.5	0	0.023	3.28
25	Male * E1 + E2 + E3	0.3	0	0.031	1.52
26	Male * E4	0.3	0	0.034	1.67
27	Male * E5 + E6	0.3	0	0.029	1.25
28	Male * E7 + E8 + E9	0.3	71	0.051	1.50
29	Male * O1 + O2 + O3	0.3	0	0.042	1.54
30	Male * O4 + O5 + O6	0.3	73	0.051	1.80
31	Female * E1 + E2 + E3	0.5	0	0.027	2.14
32	Female * E4	0.5	52	0.031	2.07
33	Female * E5 + E6	0.5	0	0.013	1.49
34	Female * E7 + E8 + E9	0.5	86	0.031	2.03
35	Female * O1 + O2 + O3	0.5	0	0.018	1.69
36	Female * O4 + O5 + O6	0.5	88	0.031	2.01
37	Male * non-Hispanic White	0.3	0	0.016	1.36
38	Male * non-Hispanic Black	0.3	0	0.038	1.16

<sup>14</sup> The precision constraints that determine the allocation solutions are identified by those final Lagrange multipliers that are most closely equal in value to the initial values described in Section 2.4.3, giving ratios close to one. Values in this column are the percentages that the final values are of the initial values. Constraints that are satisfied coincidentally to others have final Lagrange multiplier values of zero.

<sup>15</sup> The expected precision is calculated using the allocation solutions reported in Table 6.

<sup>16</sup> The design effect is the ratio of the expected variance given this allocation to the variance that would be obtained for a domain if a simple random sample were drawn from the domain with the same number of observations.

Table B-8. (continued)

Domain Number	Domain Label	Prevalence	Lagrange Ratio	Expected Precision	Design Effect
39	Male * Hispanic (any race)	0.3	44	0.051	1.15
40	Male * Other + Native American + Asian & Pacific Islander	0.3	59	0.051	1.13
41	Female * non-Hispanic White	0.5	0	0.013	2.50
42	Female * non-Hispanic Black	0.5	0	0.017	1.66
43	Female * Hispanic (any race)	0.5	11	0.051	2.70
44	Female * Other + Native American + Asian & Pacific Islander	0.5	31	0.051	2.73
45	Male * US	0.3	0	0.016	1.40
46	Male * OVERSEAS	0.3	20	0.031	1.10
47	Female * US	0.5	0	0.010	2.11
48	Female * OVERSEAS	0.5	0	0.022	1.60
49	Male * Army	0.3	0	0.026	1.06
50	Male * Navy	0.3	0	0.029	1.10
51	Male * Marine Corps	0.3	0	0.037	1.21
52	Male * Air Force	0.3	0	0.027	1.10
53	Female * Army	0.5	0	0.017	1.58
54	Female * Navy	0.5	0	0.021	1.71
55	Female * Marine Corps	0.5	0	0.025	1.42
56	Female * Air Force	0.5	0	0.016	1.60
57	Female * Army * E1 + E2 + E3	0.5	2	0.051	1.62
58	Female * Army * E4	0.5	0	0.049	1.63
59	Female * Army * E5 + E6	0.5	0	0.024	1.23
60	Female * Army * E7 + E8 + E9	0.5	0	0.054	1.78
61	Female * Army * O1 + O2 + O3	0.5	0	0.033	1.33
62	Female * Army * O4 + O5 + O6	0.5	0	0.058	1.72
63	Female * Navy * E1 + E2 + E3	0.5	0	0.050	1.50
64	Female * Navy * E4	0.5	0	0.079	1.93
65	Female * Navy * E5 + E6	0.5	0	0.028	1.17
66	Female * Navy * E7 + E8 + E9	0.5	0	0.085	1.88
67	Female * Navy * O1 + O2 + O3	0.5	0	0.038	1.34
68	Female * Navy * O4 + O5 + O6	0.5	0	0.061	1.67
69	Female * Marine Corps * E1 + E2 + E3	0.5	94	0.051	1.31
70	Female * Marine Corps * E4	0.5	0	0.086	1.69
71	Female * Marine Corps * E5 + E6	0.5	0	0.040	1.19
72	Female * Marine Corps * E7 + E8 + E9	0.5	91	0.102	1.83
73	Female * Marine Corps * O1 + O2 + O3	0.5	0	0.059	1.44
74	Female * Marine Corps * O4 + O5 + O6	0.5	98	0.102	1.78
75	Female * Air Force * E1 + E2 + E3	0.5	4	0.051	1.63
76	Female * Air Force * E4	0.5	0	0.050	1.63
77	Female * Air Force * E5 + E6	0.5	0	0.024	1.21
78	Female * Air Force * E7 + E8 + E9	0.5	0	0.057	1.79
79	Female * Air Force * O1 + O2 + O3	0.5	0	0.030	1.30
80	Female * Air Force * O4 + O5 + O6	0.5	0	0.052	1.70
81	Male * Coast Guard	0.3	0	0.041	1.86
82	Female * Coast Guard	0.5	0	0.020	1.42

Table B-8. (continued)

Domain Number	Domain Label	Prevalence	Lagrange Ratio	Expected Precision	Design Effect
83	Female * Coast Guard * E4	0.5	0	0.074	1.65
84	Female * Coast Guard * E5 + E6	0.5	0	0.029	1.15
85	Female * Coast Guard * E7 + E8 + E9	0.5	100	0.102	1.93
86	Female * Coast Guard * O1 + O2 + O3	0.5	0	0.038	1.29
87	Female * Coast Guard * O4 + O5 + O6	0.5	100	0.102	1.88
88	Male * AGR/TAR	0.3	22	0.051	1.40
89	Female * AGR/TAR	0.5	0	0.028	1.30
90	Male * Army * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.030	1.04
91	Male * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	0	0.054	1.01
92	Male * Navy * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.032	1.07
93	Male * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	3	0.061	1.01
94	Male * Marine Corps * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.041	1.01
95	Male * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	91	0.061	1.00
96	Male * Air Force * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.031	1.11
97	Male * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	0	0.053	1.00
98	Female * Army * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.019	1.45
99	Female * Army * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	0	0.024	1.00
100	Female * Navy * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.024	1.50
101	Female * Navy * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	0	0.027	1.00
102	Female * Marine Corps * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.027	1.17
103	Female * Marine Corps * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	0	0.038	1.02
104	Female * Air Force * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.019	1.47
105	Female * Air Force * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	0	0.022	1.00
106	Male * Coast Guard * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.049	2.03
107	Male * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	99	0.061	1.00

Table B-8. (continued)

Domain Number	Domain Label	Prevalence	Lagrange Ratio	Expected Precision	Design Effect
108	Female * Coast Guard * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.023	1.29
109	Female * Coast Guard * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	0	0.031	1.09
110	Male * AGR/TAR * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.3	40	0.061	1.01
111	Male * AGR/TAR * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.3	92	0.061	1.00
112	Female * AGR/TAR * E1 + E2 + E3 + E4 + E5 + E6 + E7 + E8 + E9	0.5	0	0.030	1.19
113	Female * AGR/TAR * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6	0.5	68	0.051	1.00
114	Male * Army * E1 + E2 + E3	0.3	90	0.061	1.24
115	Male * Navy * E1 + E2 + E3	0.3	86	0.061	1.21
116	Male * Marine Corps * E1 + E2 + E3	0.3	78	0.061	1.12
117	Male * Air Force * E1 + E2 + E3	0.3	96	0.061	1.24
118	Male * Coast Guard * E1 + E2 + E3	0.3	99	0.061	1.23
119	Male * Army * E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.036	1.11
120	Male * Navy * E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.039	1.14
121	Male * Marine Corps * E4 + E5 + E6 + E7 + E8 + E9	0.3	27	0.061	1.12
122	Male * Air Force * E4 + E5 + E6 + E7 + E8 + E9	0.3	0	0.037	1.14
123	Male * Coast Guard * E4 + E5 + E6 + E7 + E8 + E9	0.3	34	0.061	1.90
124	Female * Coast Guard * E1 + E2 + E3	0.5	99	0.051	1.39

**Table B-9. Design Evaluation Form C**

Domain Number	Domain Label	Prevalence	Lagrange Ratio <sup>17</sup>	Expected Precision <sup>18</sup>	Design Effect <sup>19</sup>
1	Male	0.5	100	0.020	1.01
2	Female	0.5	100	0.020	1.01

<sup>17</sup> The precision constraints that determine the allocation solutions are identified by those final Lagrange multipliers that are most closely equal in value to the initial values described in Section 2.4.3, giving ratios close to one. Values in this column are the percentages that the final values are of the initial values.

<sup>18</sup> The expected precision is calculated using the allocation solutions reported in Table 6.

<sup>19</sup> The design effect is the ratio of the expected variance given this allocation to the variance that would be obtained for a domain if a simple random sample were drawn from the domain with the same number of observations.

**Table B-10. Sample Sizes**

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	108515	761	736	412	1909
2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	34104	264	265	148	677
3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	8703	89	79	32	200
4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	8170	92	84	30	206
5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	13189	750	819	356	1925
6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	14645	2979	2109	449	5537
7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	79351	82	289	252	623
8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	47813	84	212	170	466
9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	8182	56	57	27	140
10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	8731	74	72	29	175
11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	6036	30	1462	137	1629
12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	11381	1555	2907	287	4749
13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	50231	233	296	146	675
14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	5978	30	37	19	86
15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1653	13	13	6	32
16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2372	22	21	8	51
17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	6581	284	1718	137	2139
18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	2576	461	697	57	1215
19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	29134	196	217	111	524
20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	10348	78	89	45	212
21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	2208	23	21	9	53
22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	2405	27	26	9	62



Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	3554	201	225	96	522
24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	4259	876	622	131	1629
25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	22126	23	101	71	195
26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	15479	28	81	55	164
27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	2406	17	18	8	43
28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	3012	26	27	10	63
29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	1728	9	392	40	441
30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	3776	522	946	96	1564
31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	10621	47	62	29	138
32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1389	7	9	4	20
33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	463	4	4	2	10
34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	609	5	5	2	12
35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1216	50	276	24	350
36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	545	93	137	12	242
37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	81660	506	497	290	1293
38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	23675	176	172	101	449
39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	10695	100	90	37	227
40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	5090	54	50	18	122
41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	12854	561	612	325	1498
42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	9236	1972	1441	279	3692
43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	101151	106	323	296	725
44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	20339	37	89	72	198

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	6462	41	40	20	101
46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	9357	73	74	29	176
47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	7972	119	1510	167	1796
48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	4427	698	831	111	1640
49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	37235	215	231	98	544
50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1883	12	11	6	29
51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1138	9	8	3	20
52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1344	12	11	4	27
53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	5608	351	1395	106	1852
54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1080	215	283	22	520
55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	31499	190	201	112	503
56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	8648	64	68	37	169
57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	5125	48	44	18	110
58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	2720	29	27	10	66
59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	3205	135	168	81	384
60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	2287	515	382	69	966
61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	31160	33	126	92	251
62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	6906	13	36	25	74
63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	2623	17	18	8	43
64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	5187	41	42	16	99
65	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	2687	41	477	57	575
66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1792	293	306	45	644

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	9172	53	58	25	136
68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	571	4	4	2	10
69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	403	4	3	2	9
70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	454	4	4	2	10
71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	919	58	203	18	279
72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	197	42	45	4	91
73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	59603	518	512	227	1257
74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	10976	113	114	49	276
75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	8040	105	98	35	238
76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3083	48	45	15	108
77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	2385	985	1014	65	2064
78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1485	737	705	43	1485
79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	25662	162	161	83	406
80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	9620	68	68	34	170
81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	3015	30	28	11	69
82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1150	13	12	5	30
83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	1125	204	860	26	1090
84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	972	238	710	24	972
85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	13095	240	240	35	515
86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	797	15	15	3	33
87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	489	10	10	2	22

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	352	8	8	3	19
89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	489	165	320	4	489
90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	92	38	52	2	92
91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	14180	124	132	54	310
92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	2497	26	28	12	66
93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	1997	27	26	9	62
94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	769	12	11	4	27
95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	412	170	175	12	357
96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	269	133	128	8	269
97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	5068	32	35	17	84
98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	1907	14	15	7	36
99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	613	7	6	3	16
100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	294	4	4	2	10
101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	218	40	142	5	187
102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	224	52	166	6	224
103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	2127	39	40	6	85
104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	133	3	3	2	8
105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	73	2	2	2	6
106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	60	2	2	2	6
107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & P..	71	23	46	2	71

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
108	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	88265	719	706	266	1691
109	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	13548	119	123	46	288
110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	4256	43	41	13	97
111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3029	33	32	9	74
112	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	19696	1010	1046	424	2480
113	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	7743	1373	976	184	2533
114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	91100	86	288	241	615
115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	20082	32	92	62	186
116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	4820	30	31	15	76
117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	4108	31	32	13	76
118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	10568	73	1935	200	2208
119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	5556	767	1215	122	2104
120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	53594	238	304	140	682
121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2803	14	18	8	40
122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1127	8	9	3	20
123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2065	17	16	6	39
124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	8937	353	2205	178	2736
125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1841	362	534	40	936
126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	18048	127	135	55	317
127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	3541	25	29	12	66
128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	840	8	8	3	19
129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	736	7	7	3	17

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	3477	162	182	75	419
131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1545	247	179	37	463
132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	20969	20	81	56	157
133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	6523	11	33	21	65
134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	1305	8	9	4	21
135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1347	11	11	4	26
136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	2319	16	400	44	460
137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1771	243	361	39	643
138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	6619	30	42	18	90
139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	441	3	3	2	8
140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	169	2	2	2	6
141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	278	3	3	2	8
142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1157	43	270	22	335
143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	266	51	67	6	124
144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	9538	1004	1004	32	2040
145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	687	97	97	4	198
146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	904	138	138	5	281
147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	798	126	126	4	256
148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	1131	557	562	12	1131
149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	384	190	190	4	384
150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	12344	143	143	33	319

**Table B-10. (continued)**

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	1145	17	17	4	38
152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	660	12	11	3	26
153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	411	8	8	2	18
154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	745	82	657	6	745
155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	303	44	256	3	303
156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	6281	278	279	17	574
157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	188	10	10	2	22
158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	170	10	10	2	22
159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	190	11	11	2	24
160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	435	104	329	2	435
161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander..	64	25	37	2	64
162	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	2649	.	23	9	32
163	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	540	.	7	3	10
164	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	345	.	5	2	7
165	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	135	.	3	2	5
166	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	548	.	27	13	40
167	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	356	.	61	12	73
168	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	33187	.	236	88	32
169	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	4664	.	42	16	58
170	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	2092	.	23	8	31

Table B-10. (continued)

Stratum Number	Stratum Label	Stratum Size	Form A	Form B	Form C	Total
171	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1407	.	17	5	22
172	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	5784	.	1188	109	1297
173	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	3029	.	765	71	836
174	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	9461	.	264	25	289
175	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	492	.	16	2	18
176	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	293	.	11	2	13
177	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	359	.	13	2	15
178	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	818	.	559	15	574
179	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	223	.	166	5	171
180	Unknown	6479	236	714	71	1021



**Table B-11. Weighting Classes for the Form A Survey**

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
1	1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	264	0.35
2	2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	60	0.23
3	3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	33	0.37
4	4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	30	0.33
5	5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	367	0.49
6	6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1071	0.36
7	7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	46	0.56
7	25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	16	0.70
8	8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	38	0.45
8	26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	13	0.46
9	9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	29	0.52
10	10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	49	0.66
11	11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	21	0.70
12	12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	787	0.51
13	13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	165	0.71
14	14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	23	0.77
15	15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	10	0.77
15	16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	15	0.68
15	32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	4	0.57
15	33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	0.50
15	34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5	1.00

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
16	17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	188	0.66
17	18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	270	0.59
18	19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic White	75	0.38
19	20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	24	0.31
19	21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	8	0.35
19	22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	10	0.37
20	23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	80	0.40
20	29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	4	0.44
21	24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	285	0.33
22	27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	9	0.53
22	28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	14	0.54
23	30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	234	0.45
24	31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	33	0.70
25	35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	32	0.64
26	36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	60	0.65
27	37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	184	0.36
28	38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	47	0.27
29	39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	47	0.47
30	40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	25	0.46
31	41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	289	0.52
32	42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	739	0.37

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
33	43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	68	0.64
33	61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	19	0.58
34	45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	26	0.63
35	46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	47	0.64
36	47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	66	0.55
37	48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	342	0.49
38	49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	156	0.73
39	50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	6	0.50
39	51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	8	0.89
39	52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	6	0.50
39	68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	.	.
39	69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	3	0.75
39	70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2	0.50
40	53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	240	0.68
41	54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	131	0.61
42	55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	81	0.43
43	56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	23	0.36
44	57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	23	0.48
44	63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	7	0.41
45	59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	68	0.50
46	60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	203	0.39

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
47	44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	18	0.49
47	62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	8	0.62
48	58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	20	0.69
48	64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	27	0.66
49	65	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	28	0.68
50	66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	154	0.53
51	67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	42	0.79
52	71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	34	0.59
53	72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	28	0.67
54	73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	141	0.27
55	75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	36	0.34
56	74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	17	0.15
56	76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	11	0.23
57	77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	394	0.40
58	78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	235	0.32
59	79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	82	0.51
60	80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	27	0.40
61	81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	12	0.40
61	82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	8	0.62
62	83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	115	0.56
63	84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	120	0.50
64	85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	172	0.72

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
65	86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	11	0.73
65	87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	8	0.80
65	88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5	0.63
65	104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	3	1.00
65	105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	.	.
65	106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.50
66	89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	113	0.68
67	90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	23	0.61
69	107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	12	0.52
68	91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	49	0.40
69	92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	5	0.19
69	93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	11	0.41
69	94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	8	0.67
69	98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	5	0.36
69	99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	4	0.57
69	100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	3	0.75
70	95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	79	0.46
71	96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	58	0.44
72	97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	21	0.66
73	101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	27	0.68

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
74	102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	23	0.44
75	103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	28	0.72
76	108	Air Force * US * E1 + E2 + E3 + E4 * Male * non- Hispanic White	344	0.48
77	109	Air Force * US * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	43	0.36
78	110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	26	0.60
78	116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	19	0.63
79	112	Air Force * US * E1 + E2 + E3 + E4 * Female * non- Hispanic White	560	0.55
80	113	Air Force * US * E1 + E2 + E3 + E4 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	705	0.51
81	114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non- Hispanic White	48	0.56
81	132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	15	0.75
82	115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non- Hispanic Black	22	0.69
83	111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	16	0.48
83	117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	22	0.71
84	118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	44	0.60
85	119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	437	0.57
86	120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	172	0.72
87	121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	10	0.71
87	122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6	0.75
87	123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	16	0.94
87	139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	1	0.33
87	140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
87	141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.33
88	124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	244	0.69
89	125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	254	0.70
90	126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	49	0.39
91	127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	8	0.32
91	128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	3	0.38
91	129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	4	0.57
91	133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	3	0.27
91	134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	5	0.63
91	135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	7	0.64
92	130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	82	0.51
92	136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	8	0.50
93	131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	113	0.46
94	137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	127	0.52
95	138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	22	0.73
96	142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	33	0.77
97	143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	37	0.73
98	144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	486	0.48
99	145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	31	0.32
99	151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	7	0.41
100	146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	64	0.46

Table B-11. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
100	152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	9	0.75
101	147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	65	0.52
101	153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	3	0.38
102	148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	310	0.56
103	149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	89	0.47
104	150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	104	0.73
105	154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	47	0.57
106	155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	23	0.52
107	156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	227	0.82
108	157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	6	0.60
108	158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6	0.60
108	159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	10	0.91
109	160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	76	0.73
109	161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	18	0.72
110	180	Unknown	113	0.48



**Table B-12. Weighting Classes for the Form B Survey**

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
1	1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	279	0.38
2	2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	69	0.26
3	3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	38	0.48
4	4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	36	0.43
5	5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	399	0.49
6	6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	783	0.37
7	7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	172	0.60
8	8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	108	0.51
9	9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	39	0.68
10	10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	42	0.58
11	11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	994	0.68
12	12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1653	0.57
13	13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	206	0.70
14	14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	21	0.57
14	32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	7	0.78
15	15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	9	0.69
15	16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	13	0.62
15	33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	3	0.75
15	34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	4	0.80
16	17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1246	0.73
17	18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	445	0.64

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
18	19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	72	0.33
19	20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	31	0.35
19	21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	10	0.48
19	22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	12	0.46
20	23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	112	0.50
21	24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	225	0.36
22	25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	59	0.58
23	26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	32	0.40
24	27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	12	0.67
24	28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	16	0.59
25	29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	246	0.63
26	30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	472	0.50
27	31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	51	0.82
28	35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	197	0.71
29	36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	81	0.59
30	37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	194	0.39
31	38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	51	0.30
32	39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	39	0.43
33	40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	26	0.52
34	41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	293	0.48
35	42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	562	0.39
36	43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	212	0.66
37	44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	52	0.58

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
38	45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	20	0.50
39	46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	40	0.54
40	47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic White	1044	0.69
41	48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	484	0.58
42	49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	187	0.81
43	50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	7	0.64
43	51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	7	0.88
43	52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	9	0.82
43	68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	4	1.00
43	69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	0.67
43	70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	3	0.75
44	53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1088	0.78
45	54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	197	0.70
46	55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic White	75	0.37
47	56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	14	0.21
47	57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	16	0.36
48	59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	88	0.52
49	60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	182	0.48
50	61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	86	0.68
51	62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	20	0.56
51	63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	12	0.67

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
52	58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	16	0.59
52	64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	30	0.71
53	65	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	330	0.69
54	66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	183	0.60
55	67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	46	0.79
56	71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	154	0.76
57	72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	32	0.71
58	73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non- Hispanic White	137	0.27
59	74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	23	0.20
60	75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	22	0.22
61	76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	15	0.33
62	77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	446	0.44
63	78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	236	0.33
64	79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	86	0.53
65	80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	29	0.43
66	81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	16	0.57
66	82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	6	0.50
67	83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	533	0.62
68	84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	348	0.49
69	85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic White	179	0.75
70	86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non- Hispanic Black	8	0.53

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
70	87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6	0.60
70	88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	7	0.88
70	104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1	0.33
70	105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00
70	106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.50
71	89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic White	248	0.78
72	90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	41	0.79
73	91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	46	0.35
74	92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	5	0.18
74	93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	8	0.31
74	94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3	0.27
74	98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	5	0.33
74	99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	4	0.67
74	100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	2	0.50
75	95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	74	0.42
76	96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	45	0.35
77	97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	23	0.66
78	101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	87	0.61
79	102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	71	0.43
80	103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	31	0.78

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
81	107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	38	0.83
82	108	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	353	0.50
83	109	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	48	0.39
84	110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	24	0.59
85	111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	21	0.66
85	117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	18	0.56
86	112	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	662	0.63
87	113	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	543	0.56
88	114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	204	0.71
89	115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	55	0.60
90	116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	25	0.81
91	118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	1371	0.71
92	119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	748	0.62
93	120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	243	0.80
94	121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	9	0.50
94	122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	8	0.89
94	123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	13	0.81
94	139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2	0.67
94	140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00
94	141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.33

**Table B-12. (continued)**

<b>Weighting Class Number</b>	<b>Stratum Number</b>	<b>Stratum Label</b>	<b>Number of Respondents</b>	<b>Observed Response Rate</b>
95	124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1730	0.78
96	125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	400	0.75
97	126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	65	0.48
98	127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	9	0.31
98	128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	4	0.50
98	129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	5	0.71
98	133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	20	0.61
98	134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	5	0.56
98	135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	8	0.73
99	130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	99	0.54
100	131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	91	0.51
101	132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	55	0.68
102	136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	264	0.66
103	137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	198	0.55
104	138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	28	0.67
105	142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	194	0.72
106	143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	46	0.69
107	144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	496	0.49
108	145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	36	0.37
109	146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	62	0.45
110	147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	59	0.47

Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
111	148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	318	0.57
112	149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	90	0.47
113	150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	97	0.68
114	151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	9	0.53
114	152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	6	0.55
114	153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	5	0.63
115	154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	478	0.73
116	155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	162	0.63
117	156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	233	0.84
117	157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	8	0.80
117	158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6	0.60
117	159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5	0.45
118	160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	281	0.85
119	161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	28	0.76
120	164	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	4	0.80
120	165	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	2	0.67
120	170	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	17	0.74
120	171	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	14	0.82
121	167	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	37	0.61



Table B-12. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
122	162	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	13	0.57
122	168	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	185	0.78
123	163	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	5	0.71
123	169	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	24	0.57
124	166	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	13	0.48
124	172	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	885	0.74
125	173	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	497	0.65
126	174	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	217	0.82
127	175	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	13	0.81
127	176	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	9	0.82
127	177	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	11	0.85
128	178	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	456	0.82
129	179	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	130	0.78
130	180	Unknown	374	0.52

**Table B-13. Weighting Classes for the Form C Survey**

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
1	1	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	157	0.38
2	2	Army * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	35	0.24
2	20	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	11	0.24
3	3	Army * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	14	0.44
3	4	Army * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	13	0.43
3	21	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	6	0.67
3	22	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3	0.33
4	5	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	196	0.55
5	6	Army * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	185	0.41
6	7	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	153	0.61
7	8	Army * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	101	0.59
8	9	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	14	0.52
8	10	Army * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	16	0.55
8	27	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	5	0.63
8	28	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	7	0.70
9	11	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	93	0.68
10	12	Army * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	172	0.60
11	13	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	125	0.86
11	31	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	19	0.66
12	14	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	13	0.68
12	15	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	6	1.00
12	16	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5	0.63
12	32	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	3	0.75
12	33	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00

Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
12	34	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.50
13	17	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	106	0.77
13	35	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	16	0.67
14	18	Army * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	41	0.72
14	36	Army * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	7	0.58
15	19	Army * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	50	0.45
16	23	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	57	0.59
17	24	Army * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	52	0.40
18	25	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	37	0.52
19	26	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	27	0.49
20	29	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	29	0.73
21	30	Army * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	60	0.63
22	37	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	122	0.42
23	38	Navy * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	29	0.29
24	39	Navy * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	20	0.54
24	40	Navy * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	9	0.50
25	41	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	177	0.54
26	42	Navy * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	106	0.38
27	43	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	205	0.69
28	44	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	42	0.58
28	45	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	10	0.50
29	46	Navy * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	21	0.72

**Table B-13. (continued)**

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
30	47	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	123	0.74
31	48	Navy * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	68	0.61
32	49	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	74	0.76
32	50	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2	0.33
32	51	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	3	1.00
32	52	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	3	0.75
33	53	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	80	0.75
33	54	Navy * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	17	0.77
33	71	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	16	0.89
33	72	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1	0.25
34	55	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	52	0.46
35	56	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	18	0.49
35	62	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	13	0.52
36	57	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	10	0.56
36	58	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	6	0.60
36	63	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	5	0.63
36	64	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	13	0.81
37	59	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	46	0.57
38	60	Navy * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	33	0.48
39	61	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	62	0.67
40	65	Navy	35	0.61
41	66	Navy * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	25	0.56
42	67	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	19	0.76

Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
42	68	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1	0.50
42	69	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1	0.50
42	70	Navy * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
43	73	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	69	0.30
43	91	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	15	0.28
44	74	Marine Corps * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	11	0.22
44	75	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	13	0.37
44	76	Marine Corps * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	5	0.33
44	92	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	3	0.25
44	93	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	3	0.33
44	94	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	1	0.25
45	77	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	26	0.40
45	95	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	5	0.42
46	78	Marine Corps * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	19	0.44
46	84	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	12	0.50
46	90	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1	0.50
46	96	Marine Corps * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	2	0.25
46	102	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	4	0.67
46	107	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White + non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	2	1.00
47	79	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	51	0.61
47	97	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	12	0.71
48	80	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	18	0.53

Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
48	81	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	7	0.64
48	82	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	4	0.80
48	98	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	3	0.43
48	99	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	1	0.33
48	100	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
49	83	Marine Corps * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic White	20	0.77
49	89	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	3	0.75
49	101	Marine Corps * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	2	0.40
50	85	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	33	0.94
50	86	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2	0.67
50	87	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1	0.50
50	88	Marine Corps * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	3	1.00
50	103	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	4	0.67
50	104	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	2	1.00
50	105	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00
50	106	Marine Corps * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
51	108	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic White	149	0.56
52	109	Air Force * US * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	25	0.54
52	110	Air Force * US * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	10	0.77
52	111	Air Force * US * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	5	0.56
53	112	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic White	289	0.68
54	113	Air Force * US * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	107	0.58
55	114	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	179	0.74
56	115	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	41	0.66
56	116	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	11	0.73

Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
56	117	Air Force * US * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	9	0.69
57	118	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic White	155	0.78
58	119	Air Force * US * E5 + E6 + E7 + E8 + E9 * Female * non- Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	87	0.71
59	120	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	109	0.78
59	121	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	7	0.88
59	122	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	3	1.00
59	123	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	5	0.83
59	138	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	9	0.50
59	139	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1	0.50
59	140	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1	0.50
59	141	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	1	0.50
60	124	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	148	0.83
60	142	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	13	0.59
61	125	Air Force * US * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	29	0.73
61	143	Air Force * OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	4	0.67
62	126	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic White	23	0.42
63	127	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * non- Hispanic Black	7	0.58
63	128	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	2	0.67
63	129	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	1	0.33
63	133	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non- Hispanic Black	10	0.48
63	134	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	3	0.75
63	135	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1	0.25
64	130	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non- Hispanic White	47	0.63

Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
65	131	Air Force * OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	23	0.62
66	132	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	34	0.61
67	136	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	30	0.68
68	137	Air Force * OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	28	0.72
69	144	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	16	0.50
69	145	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	2	0.50
69	146	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	2	0.40
69	147	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	3	0.75
70	148	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	10	0.83
70	149	Coast Guard * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1	0.25
70	154	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	3	0.50
70	155	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	1	0.33
70	160	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	1	0.50
70	161	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	2	1.00
71	150	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	22	0.67
71	151	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	4	1.00
71	152	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	1	0.33
71	153	Coast Guard * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	1	0.50
72	156	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	17	1.00
72	157	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1	0.50
72	158	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	2	1.00



Table B-13. (continued)

Weighting Class Number	Stratum Number	Stratum Label	Number of Respondents	Observed Response Rate
72	159	Coast Guard * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
73	162	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic White	4	0.44
73	168	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic White	71	0.81
74	163	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * non-Hispanic Black	1	0.33
74	164	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Hispanic (any race)	2	1.00
74	165	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
74	169	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * non-Hispanic Black	11	0.69
74	170	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Hispanic (any race)	6	0.75
74	171	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Male * Native American + Asian & Pacific Islander + Other	5	1.00
75	166	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic White	9	0.69
75	172	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic White	95	0.87
75	178	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic White	13	0.87
76	167	AGR/TAR * US + OVERSEAS * E1 + E2 + E3 + E4 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	5	0.42
76	173	AGR/TAR * US + OVERSEAS * E5 + E6 + E7 + E8 + E9 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	48	0.68
76	179	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Female * non-Hispanic Black + Hispanic (any race) + Native American + Asian & Pacific Islander + Other	4	0.80
77	174	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic White	23	0.92
77	175	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * non-Hispanic Black	1	0.50
77	176	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Hispanic (any race)	1	0.50
77	177	AGR/TAR * US + OVERSEAS * WO1 + WO2 + WO3 + WO4 + WO5 + O1 + O2 + O3 + O4 + O5 + O6 * Male * Native American + Asian & Pacific Islander + Other	2	1.00
78	180	Unknown	37	0.52

Table B-14. Weighting Class Performance Form A Survey

Weighting Class <sup>20</sup> <i>c</i>	Final Dataset <i>b<sub>c,r</sub></i>	Interim Dataset <i>b<sub>c,r-1</sub></i>	Difference <i>b<sub>c,r</sub> - b<sub>c,r-1</sub></i>	Student's t Statistic	Probability
1	0.10227	0.10236	-0.00009	-0.019	0.985
2	0.26667	0.24528	0.02138	0.821	0.413
3	0.18182	0.17857	0.00325	0.100	0.920
4	0.10000	0.07407	0.02593	0.788	0.432
5	0.64033	0.64444	-0.00412	-0.328	0.743
6	0.57890	0.57625	0.00264	0.190	0.849
7	0.12913	0.13124	-0.00211	-0.596	0.553
8	0.15689	0.14629	0.01060	0.600	0.550
9	-	-	-	-	-
10	0.20408	0.20833	-0.00425	-0.368	0.714
11	-	-	-	-	-
12	0.66074	0.65748	0.00326	0.254	0.800
13	0.09697	0.09816	-0.00119	-0.363	0.717
14	-	-	-	-	-
15	-	-	-	-	-
16	0.62766	0.62903	-0.00137	-0.091	0.928
17	0.54074	0.54023	0.00051	0.019	0.984
18	0.21333	0.21127	0.00207	0.146	0.884
19	-	-	-	-	-
20	0.70949	0.70471	0.00478	0.142	0.888
21	0.58246	0.58271	-0.00025	-0.009	0.993
22	0.08888	0.09756	-0.00867	-0.620	0.538
23	0.64530	0.64352	0.00178	0.071	0.943
24	0.06061	0.06250	-0.00189	-0.313	0.756
25	-	-	-	-	-
26	0.63333	0.65517	-0.02184	-0.412	0.681
27	0.19022	0.20115	-0.01093	-1.830	0.068
28	0.14894	0.13333	0.01560	0.759	0.449
29	-	-	-	-	-
30	-	-	-	-	-
31	0.58478	0.58929	-0.00451	-0.340	0.734
32	0.53721	0.52743	0.00979	0.565	0.572
33	0.16093	0.16280	-0.00188	-0.584	0.560
34	-	-	-	-	-
35	-	-	-	-	-
36	0.59091	0.60000	-0.00909	-0.525	0.601
37	0.62281	0.62236	0.00045	0.021	0.983
38	0.07692	0.07792	-0.00100	-0.298	0.766
39	0.16085	0.13129	0.02956	0.786	0.436
40	0.66667	0.66949	-0.00282	-0.179	0.858
41	0.50382	0.48819	0.01563	0.393	0.695
42	0.14815	0.14103	0.00712	0.569	0.570
43	0.13043	0.09091	0.03953	0.979	0.332
44	0.19462	0.16955	0.02508	0.894	0.375
45	0.58824	0.56923	0.01900	0.703	0.483
46	0.49754	0.50000	-0.00246	-0.072	0.943
47	0.07642	0.07951	-0.00309	-0.527	0.601
48	0.13108	0.13345	-0.00237	-0.240	0.811

<sup>20</sup> Weighting classes with no numeric entries had the same set of respondents in the interim and final datasets.

Table B-14. (continued)

Weighting Class $c$	Final Dataset $b_{c,r}$	Interim Dataset $b_{c,r-1}$	Difference $b_{c,r} - b_{c,r-1}$	Student's t Statistic	Probability
49	-	-	-	-	-
50	0.60390	0.60959	-0.00569	-0.171	0.864
51	0.02381	0.00000	0.02381	1.003	0.321
52	-	-	-	-	-
53	0.60714	0.62963	-0.02249	-0.258	0.798
54	0.14184	0.13869	0.00316	0.376	0.707
55	0.08333	0.09091	-0.00758	-0.608	0.544
56	0.08239	0.08714	-0.00475	-0.364	0.716
57	0.74365	0.74667	-0.00301	-0.105	0.916
58	0.67234	0.66814	0.00420	0.096	0.923
59	-	-	-	-	-
60	0.29630	0.30769	-0.01140	-0.599	0.551
61	-	-	-	-	-
62	-	-	-	-	-
63	0.68333	0.68103	0.00230	0.054	0.957
64	0.08140	0.08187	-0.00048	-0.084	0.933
65	0.15331	0.16576	-0.01245	-0.533	0.597
66	0.65487	0.66055	-0.00568	-0.108	0.914
67	0.65796	0.64618	0.01178	0.118	0.907
68	0.12245	0.10870	0.01375	0.674	0.502
69	0.10241	0.10996	-0.00756	-0.602	0.549
70	0.77215	0.76316	0.00899	0.146	0.884
71	0.68966	0.68519	0.00447	0.051	0.959
72	-	-	-	-	-
73	-	-	-	-	-
74	-	-	-	-	-
75	0.03571	0.04000	-0.00429	-0.384	0.703
76	0.13372	0.13569	-0.00197	-0.571	0.568
77	-	-	-	-	-
78	0.12749	0.13616	-0.00868	-0.783	0.436
79	0.56071	0.56159	-0.00088	-0.089	0.929
80	0.53475	0.53247	0.00228	0.143	0.887
81	0.11122	0.11300	-0.00178	-0.575	0.566
82	0.22727	0.23810	-0.01082	-0.793	0.434
83	-	-	-	-	-
84	-	-	-	-	-
85	0.62014	0.61916	0.00098	0.056	0.956
86	0.11628	0.11696	-0.00068	-0.204	0.839
87	-	-	-	-	-
88	0.54098	0.53750	0.00348	0.262	0.794
89	0.48031	0.48387	-0.00356	-0.126	0.900
90	0.18367	0.17778	0.00590	0.285	0.776
91	0.12305	0.12552	-0.00248	-0.294	0.770
92	0.66546	0.71949	-0.05404	-1.243	0.216
93	0.59292	0.61165	-0.01873	-0.471	0.638
94	0.58268	0.57143	0.01125	0.328	0.743
95	-	-	-	-	-
96	0.48485	0.51613	-0.03128	-0.776	0.442
97	0.59459	0.58824	0.00636	0.085	0.932
98	0.13169	0.13319	-0.00151	-0.147	0.883
99	-	-	-	-	-

Table B-14. (continued)

Weighting Class $c$	Final Dataset $b_{c,r}$	Interim Dataset $b_{c,r-1}$	Difference $b_{c,r} - b_{c,r-1}$	Student's t Statistic	Probability
100	0.25213	0.25034	0.00178	0.032	0.975
101	0.08955	0.08015	0.00940	0.403	0.688
102	0.63548	0.63036	0.00512	0.133	0.895
103	0.61798	0.62069	-0.00271	-0.037	0.970
104	0.16346	0.15686	0.00660	0.584	0.560
105	0.72340	0.72340	0.00000	0.000	1.000
106	-	-	-	-	-
107	0.08811	0.08520	0.00290	0.330	0.742
108	-	-	-	-	-
109	0.75352	0.75713	-0.00362	-0.078	0.938
110	0.13274	0.13636	-0.00362	-0.289	0.773

**Table B-15. Weighting Class Performance Form B Survey**

Weighting Class <sup>21</sup> <i>c</i>	Final Dataset <i>b<sub>c,r</sub></i>	Interim Dataset <i>b<sub>c,r-1</sub></i>	Difference <i>b<sub>c,r</sub> - b<sub>c,r-1</sub></i>	Student's <i>t</i> Statistic	Probability
1	0.25094	0.24324	0.00769	1.041	0.298
2	0.21875	0.22951	-0.01076	-0.947	0.345
3	0.17647	0.18750	-0.01103	-0.716	0.476
4	0.33333	0.35294	-0.01961	-0.909	0.366
5	0.53184	0.53101	0.00083	0.051	0.959
6	0.48921	0.47610	0.01311	0.773	0.440
7	0.21212	0.20988	0.00224	0.350	0.727
8	0.23301	0.24242	-0.00941	-1.260	0.209
9	0.16216	0.18182	-0.01966	-1.235	0.222
10	-	-	-	-	-
11	0.60594	0.60306	0.00287	0.160	0.873
12	0.52937	0.53013	-0.00076	-0.053	0.958
13	0.23153	0.23469	-0.00317	-0.476	0.634
14	0.23010	0.23942	-0.00932	-0.566	0.574
15	0.26418	0.27385	-0.00967	-0.514	0.610
16	0.61371	0.61441	-0.00070	-0.043	0.966
17	0.57759	0.57522	0.00236	0.085	0.932
18	0.24638	0.23881	0.00757	0.517	0.606
19	0.21179	0.15728	0.05451	1.553	0.123
20	0.73611	0.71642	0.01969	0.696	0.487
21	0.54902	0.54483	0.00419	0.130	0.896
22	0.32759	0.33333	-0.00575	-0.320	0.750
23	-	-	-	-	-
24	0.16294	0.17598	-0.01304	-0.736	0.466
25	0.68156	0.68047	0.00109	0.032	0.975
26	0.53482	0.53172	0.00310	0.113	0.910
27	0.30000	0.30612	-0.00612	-0.521	0.605
28	0.67391	0.66154	0.01237	0.315	0.753
29	0.49206	0.48333	0.00873	0.135	0.893
30	0.31183	0.31868	-0.00685	-1.077	0.282
31	0.16327	0.15217	0.01109	0.551	0.582
32	0.13514	0.15625	-0.02111	-1.276	0.205
33	0.16667	0.18182	-0.01515	-0.759	0.452
34	0.54206	0.54106	0.00099	0.061	0.952
35	0.51974	0.50913	0.01060	0.555	0.579
36	0.25604	0.26108	-0.00505	-1.172	0.242
37	-	-	-	-	-
38	-	-	-	-	-
39	0.18919	0.19444	-0.00526	-0.410	0.683
40	0.54401	0.54988	-0.00587	-0.382	0.703
41	0.49487	0.49734	-0.00247	-0.110	0.913
42	0.28571	0.28333	0.00238	0.352	0.725
43	0.38790	0.35981	0.02809	0.745	0.460
44	0.54394	0.54473	-0.00080	-0.048	0.962
45	0.61818	0.61006	0.00812	0.206	0.837
46	0.31429	0.30159	0.01270	0.578	0.564
47	0.43607	0.45047	-0.01440	-0.656	0.513
48	0.50769	0.50000	0.00769	0.261	0.794

<sup>21</sup> Weighting classes with no numeric entries had the same set of respondents in the interim and final datasets.

Table B-15. (continued)

Weighting Class $c$	Final Dataset $b_{c,r}$	Interim Dataset $b_{c,r-1}$	Difference $b_{c,r} - b_{c,r-1}$	Student's $t$ Statistic	Probability
49	0.59016	0.57391	0.01625	0.428	0.669
50	0.28235	0.28395	-0.00160	-0.131	0.896
51	0.28591	0.27618	0.00973	0.378	0.707
52	-	-	-	-	-
53	0.59350	0.58475	0.00875	0.322	0.747
54	0.59559	0.59055	0.00504	0.138	0.890
55	0.15909	0.16279	-0.00370	-0.382	0.704
56	0.68939	0.69600	-0.00661	-0.169	0.866
57	0.70370	0.69231	0.01140	0.133	0.895
58	0.30233	0.29839	0.00394	0.341	0.733
59	-	-	-	-	-
60	0.18182	0.16667	0.01515	0.325	0.746
61	-	-	-	-	-
62	0.69466	0.69804	-0.00338	-0.091	0.928
63	0.68750	0.69343	-0.00593	-0.110	0.912
64	0.23529	0.23457	0.00073	0.057	0.955
65	0.11538	0.12000	-0.00462	-0.387	0.700
66	0.13543	0.14208	-0.00666	-0.406	0.687
67	0.63196	0.62626	0.00570	0.136	0.892
68	0.59041	0.58015	0.01025	0.199	0.842
69	0.21348	0.21965	-0.00617	-0.695	0.488
70	0.24882	0.25851	-0.00969	-0.349	0.729
71	0.59091	0.58974	0.00117	0.021	0.984
72	-	-	-	-	-
73	0.31111	0.32558	-0.01447	-0.846	0.399
74	0.47274	0.47469	-0.00196	-0.045	0.964
75	0.83333	0.84615	-0.01282	-0.170	0.866
76	0.80645	0.82143	-0.01498	-0.151	0.880
77	0.26087	0.30000	-0.03913	-1.310	0.199
78	0.75862	0.75472	0.00390	0.042	0.966
79	0.52632	0.51786	0.00846	0.074	0.941
80	0.26667	0.25000	0.01667	0.481	0.634
81	0.56667	0.57143	-0.00476	-0.032	0.974
82	0.27300	0.26970	0.00330	0.553	0.580
83	0.26087	0.25000	0.01087	0.512	0.610
84	0.29167	0.28571	0.00595	0.145	0.885
85	-	-	-	-	-
86	0.54777	0.54839	-0.00062	-0.056	0.955
87	0.48826	0.48068	0.00759	0.429	0.668
88	0.26768	0.26531	0.00237	0.447	0.655
89	0.33333	0.31373	0.01961	0.935	0.352
90	-	-	-	-	-
91	0.58165	0.58217	-0.00052	-0.040	0.968
92	0.51405	0.51839	-0.00435	-0.227	0.820
93	0.32353	0.31915	0.00438	0.701	0.484
94	0.35377	0.36394	-0.01017	-0.572	0.570
95	0.58601	0.58652	-0.00051	-0.039	0.969
96	0.52632	0.51829	0.00802	0.271	0.787
97	0.28571	0.28814	-0.00242	-0.139	0.890
98	0.27102	0.27002	0.00101	0.055	0.956
99	0.50725	0.50794	-0.00069	-0.021	0.983

Table B-15. (continued)

Weighting Class $c$	Final Dataset $b_{c,r}$	Interim Dataset $b_{c,r-1}$	Difference $b_{c,r} - b_{c,r-1}$	Student's t Statistic	Probability
100	0.62069	0.61818	0.00251	0.055	0.956
101	0.19231	0.20000	-0.00769	-0.854	0.396
102	0.54634	0.54774	-0.00140	-0.047	0.962
103	0.58442	0.58784	-0.00342	-0.093	0.926
104	0.37037	0.34615	0.02422	0.854	0.398
105	0.64865	0.63636	0.01229	0.318	0.751
106	0.61111	0.61111	0.00000	0.000	1.000
107	0.24843	0.25431	-0.00588	-0.446	0.656
108	-	-	-	-	-
109	0.27869	0.28814	-0.00945	-0.206	0.837
110	0.37288	0.36364	0.00924	0.175	0.862
111	0.61638	0.60889	0.00749	0.165	0.869
112	0.44928	0.44118	0.00810	0.096	0.924
113	0.27835	0.28125	-0.00290	-0.283	0.778
114	-	-	-	-	-
115	0.57033	0.57216	-0.00183	-0.039	0.969
116	0.58955	0.58462	0.00494	0.063	0.950
117	0.32350	0.32070	0.00280	0.216	0.829
118	0.73953	0.74648	-0.00694	-0.134	0.894
119	-	-	-	-	-
120	0.28203	0.25960	0.02243	0.812	0.421
121	-	-	-	-	-
122	0.23625	0.23676	-0.00051	-0.073	0.941
123	0.34132	0.35527	-0.01395	-0.605	0.548
124	0.56365	0.56297	0.00068	0.038	0.969
125	0.52605	0.52551	0.00054	0.021	0.983
126	0.30288	0.30392	-0.00104	-0.090	0.928
127	0.29998	0.32064	-0.02066	-0.582	0.564
128	0.61671	0.61739	-0.00068	-0.016	0.988
129	0.51485	0.52000	-0.00515	-0.060	0.952
130	0.26286	0.26023	0.00262	0.163	0.871

**Table B-16. Weighting Class Performance Form C Survey**

Weighting Class <sup>22</sup> <i>c</i>	Final Dataset <i>b<sub>c,r</sub></i>	Interim Dataset <i>b<sub>c,r-1</sub></i>	Difference <i>b<sub>c,r</sub> - b<sub>c,r-1</sub></i>	Student's t Statistic	Probability
1	0.12739	0.13245	-0.00506	-1.252	0.211
2	0.28266	0.29550	-0.01284	-0.994	0.321
3	0.14042	0.14451	-0.00408	-0.485	0.629
4	0.50000	0.50262	-0.00262	-0.200	0.842
5	0.63243	0.63128	0.00115	0.082	0.935
6	0.15033	0.14570	0.00463	0.710	0.478
7	0.16832	0.17172	-0.00340	-0.663	0.508
8	0.16661	0.15380	0.01281	0.578	0.565
9	0.70968	0.71111	-0.00143	-0.085	0.932
10	0.57558	0.58333	-0.00775	-0.572	0.568
11	0.15415	0.15112	0.00303	0.415	0.678
12	0.13857	0.14921	-0.01063	-0.912	0.367
13	0.58272	0.58043	0.00229	0.157	0.875
14	-	-	-	-	-
15	0.08000	0.08511	-0.00511	-0.828	0.409
16	0.59649	0.61111	-0.01462	-0.538	0.592
17	0.69231	0.69565	-0.00334	-0.103	0.918
18	0.13514	0.11429	0.02085	0.836	0.406
19	0.22222	0.24000	-0.01778	-1.052	0.298
20	0.55172	0.55556	-0.00383	-0.101	0.920
21	0.71667	0.73684	-0.02018	-0.789	0.432
22	0.13115	0.12931	0.00184	0.216	0.829
23	0.17241	0.17857	-0.00616	-0.541	0.590
24	-	-	-	-	-
25	0.53672	0.53529	0.00143	0.101	0.919
26	0.44340	0.44118	0.00222	0.115	0.909
27	0.19024	0.19212	-0.00187	-0.574	0.567
28	-	-	-	-	-
29	-	-	-	-	-
30	0.67480	0.66942	0.00538	0.418	0.677
31	-	-	-	-	-
32	0.13316	0.13482	-0.00166	-0.390	0.697
33	0.53628	0.54110	-0.00483	-0.349	0.727
34	0.17308	0.18367	-0.01060	-1.137	0.258
35	0.20164	0.11212	0.08951	1.776	0.081
36	0.14366	0.14773	-0.00407	-0.494	0.624
37	0.47826	0.47727	0.00099	0.035	0.972
38	0.69697	0.70968	-0.01271	-0.350	0.728
39	0.09677	0.08475	0.01203	0.777	0.439
40	0.77143	0.79412	-0.02269	-0.752	0.455
41	0.44000	0.45833	-0.01833	-0.500	0.620
42	0.12144	0.09548	0.02595	0.956	0.347
43	0.04762	0.04938	-0.00176	-0.551	0.582
44	-	-	-	-	-
45	0.71083	0.70108	0.00974	0.335	0.738
46	0.55385	0.56511	-0.01126	-0.329	0.743
47	-	-	-	-	-

<sup>22</sup> Weighting classes with no numeric entries had the same set of respondents in the interim and final datasets.



Table B-16. (continued)

Weighting Class $c$	Final Dataset $b_{c,r}$	Interim Dataset $b_{c,r-1}$	Difference $b_{c,r} - b_{c,r-1}$	Student's t Statistic	Probability
48	-	-	-	-	-
49	0.80322	0.78313	0.02010	0.672	0.506
50	0.09984	0.07828	0.02156	0.978	0.332
51	0.15436	0.15541	-0.00104	-0.304	0.761
52	0.10096	0.10908	-0.00811	-0.987	0.327
53	0.51557	0.51590	-0.00033	-0.034	0.973
54	-	-	-	-	-
55	0.11732	0.11864	-0.00133	-0.497	0.620
56	-	-	-	-	-
57	0.67097	0.66667	0.00430	0.396	0.693
58	-	-	-	-	-
59	0.14724	0.14412	0.00312	0.422	0.673
60	0.56423	0.56775	-0.00351	-0.304	0.761
61	-	-	-	-	-
62	-	-	-	-	-
63	0.08099	0.08459	-0.00360	-0.464	0.645
64	0.53191	0.52174	0.01018	0.429	0.669
65	-	-	-	-	-
66	0.20588	0.18182	0.02406	0.964	0.339
67	0.70000	0.68966	0.01034	0.404	0.688
68	0.64286	0.62963	0.01323	0.437	0.665
69	-	-	-	-	-
70	-	-	-	-	-
71	-	-	-	-	-
72	-	-	-	-	-
73	0.09444	0.09706	-0.00262	-0.634	0.527
74	-	-	-	-	-
75	0.58099	0.57361	0.00738	0.538	0.592
76	0.63283	0.62098	0.01185	0.540	0.591
77	-	-	-	-	-
78	0.27027	0.27778	-0.00751	-0.435	0.665

**Table B-17. Stratum Response Rates for the Form A Survey**

Dimension of Stratification	Level of Stratification	Response Rate <sup>23</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	50.93	49.53	52.33
Service excluding AGR/TARs	Army	47.76	45.30	50.22
Service excluding AGR/TARs	Navy	52.68	49.84	55.52
Service excluding AGR/TARs	Marine Corps	39.00	36.70	41.30
Service excluding AGR/TARs	Air Force	56.97	53.91	60.03
Service	Coast Guard	63.34	60.38	66.30
Location	US	50.83	49.25	52.41
Location	OVERSEAS	51.49	48.31	54.67
Location	Unknown	38.41	31.19	45.63
Paygrade Group	E1-E4	37.87	36.69	39.05
Paygrade Group	E5-E9	57.56	54.42	60.70
Paygrade Group	WO1-WO5	73.65	65.23	82.07
Paygrade Group	O1-O3	69.35	66.33	72.37
Paygrade Group	O4-O6	74.54	70.72	78.36
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	50.69	49.09	52.29
Gender	Female	52.63	51.41	53.85
Gender	Unknown	55.56	32.52	78.60
Race/Ethnicity	Non-Hispanic White	53.34	51.54	55.14
Race/Ethnicity	Non-Hispanic Black	41.00	38.14	43.86
Race/Ethnicity	Hispanic	49.93	46.59	53.27
Race/Ethnicity	Native American	51.78	43.00	60.56
Race/Ethnicity	Asian, Pacific Islander	59.65	55.15	64.15
Race/Ethnicity	Other	51.70	45.52	57.88
Race/Ethnicity	Unknown	80.00	68.88	91.12

<sup>23</sup> response rate =  $\frac{\text{eligible respondents} + \text{known ineligible}}{\text{total sample}}$

**Table B-18. Stratum Response Rates for the Form B Survey**

Dimension of Stratification	Level of Stratification	Point Estimate	Response Rate <sup>24</sup>	
			Interval	Estimate
Overall	Overall	54.72	53.82	55.62
Service excluding AGR/TARs	Army	49.79	48.15	51.43
Service excluding AGR/TARs	Navy	55.14	53.26	57.02
Service excluding AGR/TARs	Marine Corps	39.25	36.95	41.55
Service excluding AGR/TARs	Air Force	63.08	61.22	64.94
Service	Coast Guard	62.96	59.90	66.02
Service	AGR/TARs	75.23	72.03	78.43
Service	Army	51.76	50.20	53.32
Service	Navy	55.58	53.76	57.40
Service	Marine Corps	39.21	36.93	41.49
Service	Air Force	63.46	61.64	65.28
Component	Active Service	53.87	52.93	54.81
Component	Active National Guard	80.58	76.66	84.50
Component	Active Reserves	68.76	63.64	73.88
Location	US	55.35	54.33	56.37
Location	OVERSEAS	52.23	50.25	54.21
Location	Unknown	53.45	47.11	59.79
Paygrade Group	E1-E4	39.50	38.30	40.70
Paygrade Group	E5-E9	62.70	61.04	64.36
Paygrade Group	WO1-WO5	69.32	61.50	77.14
Paygrade Group	O1-O3	73.30	70.76	75.84
Paygrade Group	O4-O6	80.57	77.63	83.51
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	65.22	46.48	83.96
Gender	Male	54.21	53.19	55.23
Gender	Female	58.34	57.76	58.92
Gender	Unknown	50.00	36.38	63.62
Race/Ethnicity	Non-Hispanic White	57.56	56.44	58.68
Race/Ethnicity	Non-Hispanic Black	43.73	41.75	45.71
Race/Ethnicity	Hispanic	53.42	50.18	56.66
Race/Ethnicity	Native American	52.85	43.97	61.73
Race/Ethnicity	Asian, Pacific Islander	59.69	55.23	64.15
Race/Ethnicity	Other	55.83	49.57	62.09
Race/Ethnicity	Unknown	66.48	59.82	73.14

<sup>24</sup> response rate =  $\frac{\text{eligible respondents} + \text{known ineligible}}{\text{total sample}}$

**Table B-19. Stratum Response Rates for the Form C Survey**

Dimension of Stratification	Level of Stratification	Response Rate <sup>25</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	57.94	56.74	59.14
Service excluding AGR/TARs	Army	52.83	50.77	54.89
Service excluding AGR/TARs	Navy	57.94	55.60	60.28
Service excluding AGR/TARs	Marine Corps	44.58	41.06	48.10
Service excluding AGR/TARs	Air Force	65.91	63.41	68.41
Service	Coast Guard	67.08	59.02	75.14
Service	AGR/TARs	79.23	73.89	84.57
Service	Army	54.96	52.98	56.94
Service	Navy	58.28	55.98	60.58
Service	Marine Corps	44.41	40.91	47.91
Service	Air Force	66.46	64.00	68.92
Component	Active Service	57.06	55.84	58.28
Component	Active National Guard	84.87	78.45	91.29
Component	Active Reserves	71.83	63.01	80.65
Location	US	59.14	57.82	60.46
Location	OVERSEAS	53.22	50.42	56.02
Location	Unknown	51.05	37.23	64.87
Paygrade Group	E1-E4	43.11	41.35	44.87
Paygrade Group	E5-E9	65.56	63.62	67.50
Paygrade Group	WO1-WO5	91.04	83.30	98.78
Paygrade Group	O1-O3	76.21	72.27	80.15
Paygrade Group	O4-O6	80.33	75.85	84.81
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	57.30	55.96	58.64
Gender	Female	62.54	61.20	63.88
Gender	Unknown	50.00	0.00	100.00
Race/Ethnicity	Non-Hispanic White	60.38	58.94	61.82
Race/Ethnicity	Non-Hispanic Black	48.43	45.87	50.99
Race/Ethnicity	Hispanic	56.96	51.80	62.12
Race/Ethnicity	Native American	49.57	33.01	66.13
Race/Ethnicity	Asian, Pacific Islander	64.97	57.79	72.15
Race/Ethnicity	Other	57.19	47.29	67.09
Race/Ethnicity	Unknown	57.89	35.21	80.57

<sup>25</sup> response rate =  $\frac{\text{eligible respondents} + \text{known ineligible}}{\text{total sample}}$

**Table B-20. Eligible Response Rates for the Form A Survey**

Dimension of Stratification	Level of Stratification	Eligible Response Rate <sup>26</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	52.29	50.79	53.79
Service excluding AGR/TARs	Army	48.92	46.30	51.54
Service excluding AGR/TARs	Navy	53.60	50.54	56.66
Service excluding AGR/TARs	Marine Corps	43.40	40.86	45.94
Service excluding AGR/TARs	Air Force	57.48	54.30	60.66
Service	Coast Guard	63.08	60.04	66.12
Location	US	52.15	50.45	53.85
Location	OVERSEAS	52.95	49.59	56.31
Location	Unknown	42.80	34.86	50.74
Paygrade Group	E1-E4	38.25	36.97	39.53
Paygrade Group	E5-E9	58.22	55.02	61.42
Paygrade Group	WO1-WO5	72.70	64.06	81.34
Paygrade Group	O1-O3	71.11	68.07	74.15
Paygrade Group	O4-O6	75.26	71.44	79.08
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	52.10	50.40	53.80
Gender	Female	53.62	52.34	54.90
Gender	Unknown	56.25	31.85	80.65
Race/Ethnicity	Non-Hispanic White	54.61	52.69	56.53
Race/Ethnicity	Non-Hispanic Black	42.33	39.27	45.39
Race/Ethnicity	Hispanic	52.42	48.86	55.98
Race/Ethnicity	Native American	54.75	45.59	63.91
Race/Ethnicity	Asian, Pacific Islander	61.23	56.57	65.89
Race/Ethnicity	Other	53.27	46.85	59.69
Race/Ethnicity	Unknown	74.19	58.73	89.65

<sup>26</sup> eligible response rate =  $\frac{\text{eligible respondents}}{\text{known eligibles}}$

**Table B-21. Eligible Response Rates for the Form B Survey**

Dimension of Stratification	Level of Stratification	Eligible Response Rate <sup>27</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	56.84	55.88	57.80
Service excluding AGR/TARs	Army	51.38	49.64	53.12
Service excluding AGR/TARs	Navy	57.90	55.92	59.88
Service excluding AGR/TARs	Marine Corps	43.93	41.41	46.45
Service excluding AGR/TARs	Air Force	63.88	61.96	65.80
Service	Coast Guard	63.04	59.90	66.18
Service	AGR/TARs	75.03	71.71	78.35
Service	Army	53.36	51.70	55.02
Service	Navy	58.22	56.30	60.14
Service	Marine Corps	43.77	41.27	46.27
Service	Air Force	64.25	62.37	66.13
Component	Active Service	56.05	55.07	57.03
Component	Active National Guard	80.26	76.22	84.30
Component	Active Reserves	68.44	63.08	73.80
Location	US	57.10	56.02	58.18
Location	OVERSEAS	55.72	53.64	57.80
Location	Unknown	59.50	52.74	66.26
Paygrade Group	E1-E4	40.60	39.30	41.90
Paygrade Group	E5-E9	64.32	62.64	66.00
Paygrade Group	WO1-WO5	70.32	62.42	78.22
Paygrade Group	O1-O3	74.88	72.34	77.42
Paygrade Group	O4-O6	80.98	78.02	83.94
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	71.43	52.81	90.05
Gender	Male	56.36	55.28	57.44
Gender	Female	60.18	59.58	60.78
Gender	Unknown	61.76	46.02	77.50
Race/Ethnicity	OVERALL	56.84	55.88	57.80
Race/Ethnicity	Non-Hispanic White	59.77	58.59	60.95
Race/Ethnicity	No-Hispanic Black	45.17	43.07	47.27
Race/Ethnicity	Hispanic	56.19	52.75	59.63
Race/Ethnicity	Native American	55.08	45.70	64.46
Race/Ethnicity	Asian, Pacific Islander	62.34	57.76	66.92
Race/Ethnicity	Other	57.44	50.90	63.98
Race/Ethnicity	Unknown	71.52	64.74	78.30

<sup>27</sup> eligible response rate =  $\frac{\text{eligible respondents}}{\text{known eligibles}}$

**Table B-22. Eligible Response Rates for the Form C Survey**

Dimension of Stratification	Level of Stratification	Eligible Response Rate <sup>28</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	59.49	58.25	60.73
Service excluding AGR/TARs	Army	54.22	52.06	56.38
Service excluding AGR/TARs	Navy	59.77	57.31	62.23
Service excluding AGR/TARs	Marine Corps	48.82	45.02	52.62
Service excluding AGR/TARs	Air Force	65.94	63.38	68.50
Service	Coast Guard	66.66	58.50	74.82
Service	AGR/TARs	78.85	73.33	84.37
Service	Army	56.41	54.33	58.49
Service	Navy	60.02	57.60	62.44
Service	Marine Corps	48.57	44.79	52.35
Service	Air Force	66.41	63.89	68.93
Component	Active Service	58.66	57.38	59.94
Component	Active National Guard	84.64	78.14	91.14
Component	Active Reserves	70.58	61.18	79.98
Location	US	60.77	59.37	62.17
Location	OVERSEAS	54.48	51.58	57.38
Location	Unknown	55.40	41.10	69.70
Paygrade Group	E1-E4	43.79	41.87	45.71
Paygrade Group	E5-E9	66.45	64.47	68.43
Paygrade Group	WO1-WO5	93.05	86.27	99.83
Paygrade Group	O1-O3	76.92	72.96	80.88
Paygrade Group	O4-O6	80.96	76.48	85.44
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	58.84	57.44	60.24
Gender	Female	64.13	62.73	65.53
Gender	Unknown	50.00	0.00	100.00
Race/Ethnicity	Non-Hispanic White	61.74	60.22	63.26
Race/Ethnicity	Non-Hispanic Black	50.64	47.96	53.32
Race/Ethnicity	Hispanic	58.91	53.49	64.33
Race/Ethnicity	Native American	41.84	24.22	59.46
Race/Ethnicity	Asian, Pacific Islander	66.72	59.50	73.94
Race/Ethnicity	Other	59.20	48.88	69.52
Race/Ethnicity	Unknown	61.11	38.09	84.13

<sup>28</sup> eligible response rate =  $\frac{\text{eligible respondents}}{\text{known eligibles}}$

**Table B-23. Pre-mailing Eligible Response Rate for the Form A Survey**

Dimension of Stratification	Level of Stratification	Pre-mailing Eligible Response Rate <sup>29</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	49.54	48.10	50.98
Service excluding AGR/TARs	Army	45.84	43.32	48.36
Service excluding AGR/TARs	Navy	50.98	48.08	53.88
Service excluding AGR/TARs	Marine Corps	38.48	36.18	40.78
Service excluding AGR/TARs	Air Force	56.22	53.12	59.32
Service	Coast Guard	62.65	59.63	65.67
Location	US	49.35	47.73	50.97
Location	OVERSEAS	50.46	47.22	53.70
Location	Unknown	37.34	30.10	44.58
Paygrade Group	E1-E4	34.43	33.25	35.61
Paygrade Group	E5-E9	57.29	54.13	60.45
Paygrade Group	WO1-WO5	73.02	64.46	81.58
Paygrade Group	O1-O3	69.01	65.97	72.05
Paygrade Group	O4-O6	74.38	70.54	78.22
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	49.36	47.74	50.98
Gender	Female	50.91	49.67	52.15
Gender	Unknown	52.94	29.12	76.76
Race/Ethnicity	OVERALL	49.54	48.10	50.98
Race/Ethnicity	Non-Hispanic White	51.92	50.08	53.76
Race/Ethnicity	Non-Hispanic Black	39.76	36.86	42.66
Race/Ethnicity	Hispanic	48.44	45.04	51.84
Race/Ethnicity	Native American	50.89	41.99	59.79
Race/Ethnicity	Asian, Pacific Islander	58.95	54.39	63.51
Race/Ethnicity	Other	50.45	44.19	56.71
Race/Ethnicity	Unknown	69.70	53.96	85.44

<sup>29</sup> pre - mailing eligible response rate =  $\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible}}$



**Table B-24. Pre-mailing Eligible Response Rate for the Form B Survey**

Dimension of Stratification	Level of Stratification	Pre-mailing Eligible Response Rate <sup>30</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	53.44	52.52	54.36
Service excluding AGR/TARs	Army	47.86	46.20	49.52
Service excluding AGR/TARs	Navy	53.79	51.89	55.69
Service excluding AGR/TARs	Marine Corps	38.81	36.51	41.11
Service excluding AGR/TARs	Air Force	62.29	60.41	64.17
Service	Coast Guard	62.19	59.07	65.31
Service	AGR/TARs	74.27	70.97	77.57
Service	Army	49.94	48.36	51.52
Service	Navy	54.19	52.35	56.03
Service	Marine Corps	38.72	36.44	41.00
Service	Air Force	62.68	60.82	64.54
Component	Active Service	52.59	51.65	53.53
Component	Active National Guard	80.09	76.07	84.11
Component	Active Reserves	67.02	61.70	72.34
Location	US	54.00	52.96	55.04
Location	OVERSEAS	51.25	49.25	53.25
Location	Unknown	52.12	45.54	58.70
Paygrade Group	E1-E4	36.38	35.18	37.58
Paygrade Group	E5-E9	62.24	60.56	63.92
Paygrade Group	WO1-WO5	69.02	61.14	76.90
Paygrade Group	O1-O3	73.02	70.46	75.58
Paygrade Group	O4-O6	80.47	77.51	83.43
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	65.22	46.48	83.96
Gender	Male	52.96	51.92	54.00
Gender	Female	56.88	56.28	57.48
Gender	Unknown	46.67	32.63	60.71
Race/Ethnicity	Non-Hispanic White	56.32	55.18	57.46
Race/Ethnicity	Non-Hispanic Black	42.29	40.29	44.29
Race/Ethnicity	Hispanic	51.91	48.61	55.21
Race/Ethnicity	Native American	51.54	42.52	60.56
Race/Ethnicity	Asian, Pacific Islander	59.14	54.64	63.64
Race/Ethnicity	Other	54.25	47.85	60.65
Race/Ethnicity	Unknown	65.32	58.48	72.16

<sup>30</sup> pre - mailing eligible response rate = 
$$\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible}}$$

**Table B-25. Pre-mailing Eligible Response Rate for the Form C Survey**

Dimension of Stratification	Level of Stratification	Pre-mailing Eligible Response Rate <sup>31</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	56.67	55.47	57.87
Service excluding AGR/TARs	Army	50.89	48.81	52.97
Service excluding AGR/TARs	Navy	56.53	54.15	58.91
Service excluding AGR/TARs	Marine Corps	44.00	40.48	47.52
Service excluding AGR/TARs	Air Force	65.24	62.70	67.78
Service	Coast Guard	65.95	57.73	74.17
Service	AGR/TARs	78.46	72.96	83.96
Service	Army	53.18	51.18	55.18
Service	Navy	56.83	54.49	59.17
Service	Marine Corps	43.84	40.34	47.34
Service	Air Force	65.75	63.25	68.25
Service	Coast Guard	65.95	57.73	74.17
Component	Active Service	55.78	54.54	57.02
Component	Active National Guard	84.64	78.14	91.14
Component	Active Reserves	69.93	60.63	79.23
Location	US	57.84	56.50	59.18
Location	OVERSEAS	52.09	49.25	54.93
Location	Unknown	51.05	37.23	64.87
Paygrade Group	E1-E4	39.91	38.11	41.71
Paygrade Group	E5-E9	65.13	63.17	67.09
Paygrade Group	WO1-WO5	91.04	83.30	98.78
Paygrade Group	O1-O3	75.96	71.98	79.94
Paygrade Group	O4-O6	80.18	75.66	84.70
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	56.04	54.68	57.40
Gender	Female	61.17	59.79	62.55
Gender	Unknown	33.33	0.00	87.85
Race/Ethnicity	Non-Hispanic White	59.06	57.58	60.54
Race/Ethnicity	Non-Hispanic Black	47.51	44.95	50.07
Race/Ethnicity	Hispanic	55.24	49.96	60.52
Race/Ethnicity	Native American	41.10	23.80	58.40
Race/Ethnicity	Asian, Pacific Islander	64.74	57.52	71.96
Race/Ethnicity	Other	56.39	46.37	66.41
Race/Ethnicity	Unknown	57.89	35.21	80.57

<sup>31</sup> pre - mailing eligible response rate =  $\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible}}$

**Table B-26. Completion Rates for the Form A Survey**

Dimension of Stratification	Level of Stratification	Completion Rate <sup>32</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	52.45	50.95	53.95
Service Excluding AGR/TARs	Army	49.07	46.45	51.69
Service Excluding AGR/TARs	Navy	53.78	50.72	56.84
Service Excluding AGR/TARs	Marine Corps	43.44	40.90	45.98
Service Excluding AGR/TARs	Air Force	57.64	54.46	60.82
Service	Coast Guard	63.19	60.15	66.23
Location	US	52.29	50.61	53.97
Location	OVERSEAS	53.16	49.80	56.52
Location	Unknown	42.80	34.86	50.74
Paygrade Group	E1-E4	38.28	37.00	39.56
Paygrade Group	E5-E9	58.46	55.28	61.64
Paygrade Group	WO1-WO5	73.02	64.46	81.58
Paygrade Group	O1-O3	71.21	68.19	74.23
Paygrade Group	O4-O6	75.34	71.52	79.16
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	52.27	50.57	53.97
Gender	Female	53.72	52.44	55.00
Gender	Unknown	56.25	31.85	80.65
Race/Ethnicity	Non-Hispanic White	54.81	52.89	56.73
Race/Ethnicity	Non-Hispanic Black	42.35	39.29	45.41
Race/Ethnicity	Hispanic	52.42	48.86	55.98
Race/Ethnicity	Native American	54.75	45.59	63.91
Race/Ethnicity	Asian, Pacific Islander	61.47	56.83	66.11
Race/Ethnicity	Other	53.27	46.85	59.69
Race/Ethnicity	Unknown	74.19	58.73	89.65

<sup>32</sup> completion rate =  $\frac{\text{eligible respondents} + \text{self} - \text{reported ineligible}}{\text{total sample} - \text{record ineligible} - \text{nondeliverables}}$

**Table B-27. Completion Rates for the Form B Survey**

Dimension of Stratification	Level of Stratification	Completion Rate <sup>33</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	56.99	56.03	57.95
Service excluding AGR/TARs	Army	51.53	49.79	53.27
Service excluding AGR/TARs	Navy	57.98	56.00	59.96
Service excluding AGR/TARs	Marine Corps	44.05	41.53	46.57
Service excluding AGR/TARs	Air Force	64.10	62.18	66.02
Service	Coast Guard	63.06	59.92	66.20
Service	AGR/TARs	75.14	71.84	78.44
Service	Army	53.52	51.88	55.16
Service	Navy	58.30	56.38	60.22
Service	Marine Corps	43.90	41.40	46.40
Service	Air Force	64.47	62.59	66.35
Component	Active Service	56.21	55.23	57.19
Component	Active National Guard	80.40	76.38	84.42
Component	Active Reserves	68.47	63.11	73.83
Location	US	57.29	56.21	58.37
Location	OVERSEAS	55.73	53.65	57.81
Location	Unknown	59.50	52.74	66.26
Paygrade Group	E1-E4	40.67	39.37	41.97
Paygrade Group	E5-E9	64.52	62.84	66.20
Paygrade Group	WO1-WO5	70.60	62.76	78.44
Paygrade Group	O1-O3	74.90	72.36	77.44
Paygrade Group	O4-O6	81.11	78.17	84.05
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	71.43	52.81	90.05
Gender	Male	56.52	55.44	57.60
Gender	Female	60.31	59.71	60.91
Gender	Unknown	61.76	46.02	77.50
Race/Ethnicity	Non-Hispanic White	59.93	58.77	61.09
Race/Ethnicity	Non-Hispanic Black	45.39	43.29	47.49
Race/Ethnicity	Hispanic	56.20	52.76	59.64
Race/Ethnicity	Native American	55.09	45.71	64.47
Race/Ethnicity	Asian, Pacific Islander	62.34	57.76	66.92
Race/Ethnicity	Other	57.44	50.90	63.98
Race/Ethnicity	Unknown	71.52	64.74	78.30

<sup>33</sup> completion rate =  $\frac{\text{eligible respondents} + \text{self} - \text{reported ineligible}}{\text{total sample} - \text{record ineligible} - \text{nondeliverables}}$

**Table B-28. Completion Rates for the Form C Survey**

Dimension of Stratification	Level of Stratification	Completion Rate <sup>34</sup>		
		Point Estimate	Interval	Estimate
Overall	Overall	59.56	58.32	60.80
Service excluding AGR/TARs	Army	54.25	52.09	56.41
Service excluding AGR/TARs	Navy	59.87	57.41	62.33
Service excluding AGR/TARs	Marine Corps	48.92	45.12	52.72
Service excluding AGR/TARs	Air Force	65.99	63.43	68.55
Service	Coast Guard	66.66	58.50	74.82
Service	AGR/TARs	78.99	73.49	84.49
Service	Army	56.44	54.36	58.52
Service	Navy	60.12	57.70	62.54
Service	Marine Corps	48.67	44.89	52.45
Service	Air Force	66.48	63.96	69.00
Component	Active Service	58.73	57.45	60.01
Component	Active National Guard	84.64	78.14	91.14
Component	Active Reserves	71.05	61.75	80.35
Location	US	60.84	59.44	62.24
Location	OVERSEAS	54.53	51.63	57.43
Location	Unknown	55.40	41.10	69.70
Paygrade Group	E1-E4	43.84	41.92	45.76
Paygrade Group	E5-E9	66.52	64.56	68.48
Paygrade Group	WO1-WO5	93.05	86.27	99.83
Paygrade Group	O1-O3	76.92	72.96	80.88
Paygrade Group	O4-O6	81.10	76.64	85.56
Paygrade Group	Enlisted Unknown	-	-	-
Paygrade Group	Officer Unknown	-	-	-
Gender	Male	58.91	57.51	60.31
Gender	Female	64.19	62.79	65.59
Gender	Unknown	50.00	0.00	100.00
Race/Ethnicity	Non-Hispanic White	61.82	60.30	63.34
Race/Ethnicity	Non-Hispanic Black	50.64	47.96	53.32
Race/Ethnicity	Hispanic	58.93	53.51	64.35
Race/Ethnicity	Native American	41.84	24.22	59.46
Race/Ethnicity	Asian, Pacific Islander	66.72	59.50	73.94
Race/Ethnicity	Other	59.73	49.49	69.97
Race/Ethnicity	Unknown	61.11	38.09	84.13

<sup>34</sup> completion rate =  $\frac{\text{eligible respondents} + \text{self-reported ineligible}}{\text{total sample} - \text{record ineligible} - \text{nondeliverables}}$

## Appendix C

### Taylor Series Linearizations For Two Variable Functions

The Taylor series expansion for a function of two variables  $f(x,y)$  about the values  $x = a$  and  $y = b$  is given by,

$$\begin{aligned}
 f(x,y) &= f(a,b) + \left( (x-a) \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} + (y-b) \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right) \\
 &\quad + \frac{1}{2!} \left( (x-a)^2 \frac{\partial^2 f(x,y)}{\partial x^2} \Big|_{x=a} + (y-b)^2 \frac{\partial^2 f(x,y)}{\partial y^2} \Big|_{y=b} + (x-a)(y-b) \frac{\partial^2 f(x,y)}{\partial x \partial y} \Big|_{x=a, y=b} \right) \\
 &\quad + \dots \\
 &\approx f(x,y) = f(a,b) + \left( (x-a) \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} + (y-b) \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right).
 \end{aligned}$$

The variance of  $f(x,y)$  is,

$$\begin{aligned}
 Var\{f(x,y)\} &= E\{f(x,y)^2\} - (E\{f(x,y)\})^2 \\
 &\approx E\left\{ \left( f(a,b) + \left( (x-a) \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} + (y-b) \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right) \right)^2 \right\} \\
 &\quad - \left( E\left\{ f(a,b) + \left( (x-a) \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} + (y-b) \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right) \right\} \right)^2.
 \end{aligned}$$

Define  $E\{x\} = a$  and  $E\{y\} = b$ . Then the above approximate variance becomes,

$$\begin{aligned}
 Var\{f(x,y)\} &\approx E\left\{ (x-a)^2 \left( \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} \right)^2 \right\} + E\left\{ (y-b)^2 \left( \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right)^2 \right\} \\
 &\quad + 2E\left\{ (x-a)(y-b) \left( \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} \right) \left( \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right) \right\}
 \end{aligned}$$

$$\begin{aligned}
&= Var\{x\} \left( \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} \right)^2 + Var\{y\} \left( \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right)^2 \\
&\quad + 2Cov\{x,y\} \left( \frac{\partial f(x,y)}{\partial x} \Big|_{x=a} \right) \left( \frac{\partial f(x,y)}{\partial y} \Big|_{y=b} \right).
\end{aligned}$$

For example, if  $f(x,y) = \frac{x}{y}$  as in a ratio estimate, then the Taylor series approximation is given by,

$$Var\{f(x,y)\} \approx \frac{1}{b^2} \left( Var\{x\} + \left(\frac{a}{b}\right)^2 Var\{y\} - 2\frac{a}{b} Cov\{x,y\} \right).$$

The same variance approximation can be obtained by defining the linearized variable,  $z = x - \frac{a}{b}y$ . The variance of  $z$  is,

$$\begin{aligned}
Var\{z\} &= E\left\{ \left( x - \frac{a}{b}y \right) - E\left\{ x - \frac{a}{b}y \right\} \right\}^2 \\
&= E\left\{ (x - a) - \frac{a}{b}(y - b) \right\}^2 \\
&= Var\{x\} + \left(\frac{a}{b}\right)^2 Var\{y\} - 2\frac{a}{b} Cov\{x,y\}.
\end{aligned}$$

Note that this variance is  $b^2$  times the Taylor series approximation given above. That is

$$Var\left\{ \frac{x}{y} \right\} = \frac{1}{b^2} Var\{z\}.$$

## Appendix D

### Derivation of Initial Lagrange Multiplier Values for a Stratified Random Sampling Design

#### Derivation

For a single variance constraint, given a stratified random sampling design, interest lies in minimizing the objective function

$$o(n_h, \lambda) = \sum_h n_h \bar{C}_h + \lambda \sum_h \left( \frac{N_h}{N} \right)^2 \frac{P_h(1 - P_h)}{n_h} - K,$$

where the  $h$ -subscript denotes the design strata and,

$n_h$  = the unknown sample size to be selected from the  $h$ -th stratum,

$\lambda$  = a generalized Lagrange multiplier,

$N_h / N$  = the relative size of the  $h$ -th stratum in the population,

$P_h(1 - P_h)$  = the population variance of a defined proportion in the  $h$ -th stratum,

$K$  = the variance constraint placed on the sample estimate of  $P_h$ .

The objective function as written above ignores the finite population correction (as though the sample were selected with replacement).

Taking derivatives of the objective function with respect to the unknown sample sizes  $n_h$  yields equations of the form

$$\frac{\partial o(n_h, \lambda)}{\partial n_h} = \bar{C}_h + \lambda \frac{\left( \frac{N_h}{N} \right)^2 P_h(1 - P_h)}{-n_h^2}.$$

Setting these equations to zero and solving for  $n_h$  yields the solutions,

$$n_h = \sqrt{\lambda} \frac{N_h}{N} \sqrt{P_h(1 - P_h)} / \sqrt{\bar{C}_h}. \quad (1)$$

For the one-constraint case, the allocation solutions can also be obtained explicitly. Cochran (1963) on pages 95-96 solves for the values



$$\frac{n_h}{n} = \frac{\frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h}}{\sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h}}$$

and

$$n = \frac{\left( \sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} \sqrt{C_h} \right) \sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h}}{K},$$

(again ignoring the finite population effect). Combining these two results gives the explicit solution

$$n_h = \frac{\frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h} \sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} \sqrt{C_h}}{K} \quad (2)$$

Then from equations (1) and (2) we have

$$\sqrt{\lambda} \frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h} = \frac{\frac{N_h}{N} \sqrt{P_h(1-P_h)} / \sqrt{C_h} \sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} \sqrt{C_h}}{K}$$

from which

$$\sqrt{\lambda} = \frac{\sum_h \frac{N_h}{N} \sqrt{P_h(1-P_h)} \sqrt{C_h}}{K} \quad (3)$$

### Some Observations

The initial Lagrange multiplier value (equation (3)) obviously receives a contribution from each stratum that has a value  $P_h > 0$ . The largest strata, those with a  $P_h$ -value approaching 0.50 and those with the largest per unit average cost, contribute more to the  $\lambda$ -value than do small strata with  $P_h$ -values approaching zero or one and small per unit costs. However, the stratum sizes and per unit costs do not depend on the domain, such that differences among initial  $\lambda$ -values depend only on the values  $P_h$  and  $K$ .

Thus, the largest  $\lambda$ -values starting out will belong to those domains for which  $P_h$  approaches 0.5 and for which  $K$  is smallest. Note that  $K$  is itself a variance having a value less than one for binomial proportions for any reasonable constraint. Because  $K$  appears in the denominator, the smaller values will produce the larger  $\lambda$ -values. So, in summary, the largest

initial Lagrange multipliers will be those that correspond to the largest population proportions (up to a maximum of 0.50) if these proportions also have the more restrictive constraints imposed on them.



## APPENDIX E

### Variables contained on the SAS Analysis Files for the 1995 Status of the Armed Forces Surveys

This appendix contains a description of the types of records and variables contained on the three analysis files for the *1995 Status of the Armed Forces Surveys*. Section E.1 describes the variables on the Survey Analysis File, Section E.2 describes the variables on the Methods Analysis File, and Section E.3 describes the variables on the Duplicate Analysis File.

#### E.1 Variables Contained on the Survey Analysis File

The number of records contained on the Survey Analysis File is 50,051. Two types of respondent records are included on this file: data collected from ineligible study subjects (ineligibles), and data collected from eligible study subjects (eligibles). Both the eligibles and ineligibles are categorized as respondents since the eligibility status for the study was determined.

Analysis variables included in the Survey Analysis File are described on the following pages. The variable information is displayed using the following format:

<i>Variable:</i>	variable name
<i>Length:</i>	size of the variable
<i>Label:</i>	variable label
<i>Values:</i>	values of the variable
<i>Description:</i>	description of the variable

The variable name (*Variable*) is the name of the variable on the data set. The size of the variable (*Length*) includes the variable length and the type of variable, such as numeric or alphanumeric. Alphanumeric variables can be identified by an "A" before the variable length. The variable label (*Label*) is an expanded version of the 40 character variable label contained on the SAS data set. The values of the variable (*Values*) section includes either a frequency distribution for the categorical variables or a range of values for the continuous variables. Finally, the description of the variable (*Description*) contains information such as the origin of the variable.

Variable: ELIG\_FLG

Length: 2

Label: Indicator for the Subject's Eligibility Status

Values: ELIG\_FLG is a categorical variable with the following distribution:

<u>Levels</u>	<u>Frequency</u>	<u>Percent</u>
0 = Ineligible Subjects.....	2,796	5.6%
1 = Eligible Subjects.....	47,255	94.4%
	=====	
	50,051	

Description: Subjects were classified as ineligible for study participation for the following reasons:

<u>Reason</u>	<u>Frequency</u>	<u>Percent</u>
1 = Separation from the Military.....	1,611	57.6%
2 = Transition to National Guard and Reserves <sup>35</sup> .....	960	34.3%
3 = Other ineligibility reasons.....	22	0.8%
4 = Self-report ineligible.....	203	7.3%
	=====	
	2,796	

Ineligible subjects are included on the data set for analysis purposes because they are representative of other ineligible subjects who did not respond. The population totals used for post-stratification adjustments also contained ineligible (see FINAL\_WT discussion). During analyses using the design-specific package SUDAAN®, eligible subjects should be identified with the *SUBPOPN* statement. However, the records for the ineligible respondents should be eliminated prior to analyses using other statistical packages such as SAS. Appendix A of this document gives recommended uses of this variable during analysis.

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<sup>35</sup> Active-duty National Guard and Reserves (AGR/TARs) were excluded from participation in the Form A survey for the purposes of comparison between the 1995 and 1988 studies.

Variable: FINAL\_ID

Length: A7

Label: Unique Subject Identification Number

Values: FINAL\_ID is a continuous variable stored as a 7-digit character with the following distribution:

Maximum 1091003

Median 1045454

Minimum 1000002

Description: Three waves of questionnaires were sent. The second and third waves were used to prompt study participation from the nonresponders in the previous wave. FINAL\_ID is created by attaching a subject identification number to a single digit questionnaire identification number. This single digit identifier distinguishes between the first complete questionnaire and any subsequent questionnaires returned by the same study participant. The first usable questionnaire was identified as the first questionnaire returned, based on the date on which the information was scanned into the data management system, which contained information for a set of relevant questions. The questionnaire ID has the following distribution across all of the analysis files for Forms A through C:

<u>Levels</u>	<u>Frequency</u>	<u>Percent</u>
1 = 1 <sup>st</sup> Questionnaire Returned By Subject.....	91,006	99.2%
2 = 2 <sup>nd</sup> Questionnaire Returned By Subject.....	682	0.8%
3 = 3 <sup>rd</sup> Questionnaire Returned By Subject.....	12	0.0%
	=====	
	91,700	

The 694 (=682 + 12) records containing the subsequent questionnaire information returned by the sample members are stored in the Duplicate Analysis File. FINAL\_ID provides a means for matching the 50,051 records in the Survey Analysis File with the Methods Analysis File and the Duplicate Analysis File.

Variable: FINAL\_WT

Length: 8

Label: Final Analysis Weight

Values: FINAL\_WT is a continuous variable with the following distribution:

Maximum 1780.89

Medium 13.66

Minimum 1.06

Description : Sampling weights are calculated as the inverse probability of selection for each sample member. Weighting class adjustments are applied to the sampling weights to account for the study nonrespondents. Post-stratification adjustments are further applied to the weights to create the final analysis weights (FINAL\_WT). By summing the sampling weights for a particular domain, such as males, an estimate of the total number of males is calculated. Due to subject nonresponse and fluctuations in the weights, this estimate of the total differed from the total calculated from the sampling frame. The post-stratification adjustment scaled the sampling weights so that the sum would closely match the sampling frame total. Appendix A in this document gives recommended uses of the variable during analysis.

Variable: NWCSTRAT

Length: 4

Label: Sampling Frame Count within the Weighting Class Strata

Values: NWCSTRAT is a continuous variable with the following distribution:

Maximum 132,311

Median 7,972

Minimum 64

Description: A stratified random sampling design was used for each of the three surveys. The sampling frame was stratified for each form by Service, location (US/Overseas), paygrade groupings, gender, and race/ethnicity groupings. Optimum allocation techniques were used to distribute the sample across the strata. Variance estimation requires at least two analysis records within each sampling stratum. Precision of the estimates improves as the average number of analysis records within the strata increases. Since nonresponse causes a decrease in the number of records, several strata were collapsed. Strata were combined based on the stratum variables and the response pattern within the strata. Thus, weighting class strata (WCSTRAT) were formed by collapsing the sampling strata. Sampling frame counts were calculated within the weighting class strata for analysis purposes. Appendix A in this document gives recommended uses of the variable during analysis.



Variable: SURVFORM

Length: A1

Label: Study Survey Form

Values: SURVFORM is a categorical variable with the following distribution:

<u>Levels</u>	<u>Frequency</u>	<u>Percent</u>
A = Form A.....	14,658	29.3%
B = Form B.....	29,687	59.3%
C = Form C.....	5,706	11.4%
	=====	
	50,051	

Description: Identifies the survey form.

Variable: WCSTRAT

Length: 3

Label: Weighting Class Strata

Values: WCSTRAT is a continuous variable with the following distribution:

Maximum 180

Median 73

Minimum 1

Description: A stratified random sampling design was used for each of the three surveys. The sampling frame was stratified for each form by Service, location (US/Overseas), paygrade groupings, gender, and race/ethnicity groupings. Optimum allocation techniques were used to allocate the sample across the strata. Variance estimation requires at least two analysis records within each sampling stratum. Precision of the estimates improve as the average number of analysis records within the strata increases. Since nonresponse causes a decrease in the number of records, several strata were collapsed. Strata were combined based on the stratum variables and the response pattern within the strata. Thus weighting class strata (WCSTRAT) were formed by collapsing the sampling strata. Approximately, 70 strata were collapsed either before the sample was drawn or after data collection was complete for Form A. Forms B and C have 50 and 102, respectively, collapsed. Sampling frame counts were calculated within the weighting class strata for analysis purposes (NWCSTRAT). Appendix A in this document gives the recommended uses of the variable during analysis.

## E.2 Methods Analysis File - Final Analysis Variables and Intermediate Weighting Variables

This section contains a description of the types of records and variables contained on the Methods Analysis File for the *1995 Status of the Armed Forces Surveys*. The number of records contained on the Methods Analysis File is 91,006. Two types of respondent records are included on this file: data collected from ineligible study subjects (ineligibles); and data collected from eligible study subjects (eligibles). Both the eligibles and ineligible are categorized as respondents since the eligibility status for the study was determined. Records for the study nonrespondents are also captured on this file. The Survey Analysis File (described in Section E.1), is a subset of the Methods Analysis File and contains the 50,051 records from only the respondents. The Duplicate Analysis File (described in Section E.3) contains 694 records for the multiple questionnaires returned by the study participants.

Analysis variables and intermediate variables used during the construction of the weight variables included in the Methods Analysis File are described in section E.2.1 and E.2.2, respectively. The variable information is displayed using the following format:

<i>Label:</i>	variable name
<i>Len:</i>	length or size of the variable
<i>Description:</i>	description of the variable
<i>Freqs:</i>	number of records containing a particular value or range of values
<i>Pct:</i>	percent distribution associated with the frequencies

The variable name (*Label*) is the name of the variable on the data set. The size of the variable (*Len*) includes the variable length and the type of variable, such as numeric or alphanumeric. Alphanumeric variables can be identified by an "A" before the variable length. The description of the variable (*Description*) includes information such as the label and values of the variable. Variable values are displayed (*Description*) in one of two ways depending on the type of variable. Frequency distributions are used for categorical variables. Ranges of values are used for continuous variables. The total number of records for each level of the variable (categorical) or within the valid range (continuous) is given in the *Freqs* column, and the range is provided in the *Description* column. The percent distribution (*Pct*) is provided for the categorical variables.

### E.2.1 Final Analysis Variables

Appendix A in this document gives recommended uses of the following variables during analysis, and Section 4 gives details concerning their during the construction of analysis weights.

Label	Len	Description	Freqs	Pct
ANL_WT	8	Respondent Analysis Weight		
		0 = Nonrespondent Weight	40,95	45.0
		Positive Range = 1.54 - 1783.22 .....	50,05	55.0
			<u>91,00</u>	
ELIG_FLG	2	Indicator for Subject Eligibility		
		0 = Ineligible Subjects.....	2,79	5.4
		1 = Eligible Subjects.....	48,55	94.6
			<u>51,34</u>	
FINAL_WT	8	Final Analysis Weight		
		0 = Nonrespondent and Ineligible weight .....	40,95	45.0
		Positive Range = 1.06 - 1780.89 .....	50,05	55.0
			<u>91,00</u>	
SURVFORM	A1	Study Survey Form		
		A = Survey Form A .....	30,75	33.8
		B = Survey Form B .....	50,39	55.4
		C = Survey Form C .....	9,85	10.8
			<u>91,00</u>	
NWCSTRAT	4	Frame Count within Weighting Class Strata		
		Range = 64 - 132,311 .....	91,00	100
RESP_FLG	2	Indicator for Respondent Status		
		0 = Nonrespondent .....	40,95	45.0
		1 = Respondent .....	50,05	55.0
			<u>91,00</u>	
WCSTRAT	3	Weighting Class Strata		
		Range = 1 - 180 .....	91,00	100

## E.2.2 Intermediate Weighting Variables

Section 4 in this document gives details concerning the use of the following variables during the construction of analysis weights.

Label	Len	Description	Freqs	Pct
FINAL_ID	A7	Unique Subject Identification Number Range = 1000001 - 1091006 .....	91,00	100
INELCODE	2	Ineligibility Status Code		
		1 = Separation from the military .....	1,61	57.6
		2 = National Guard or Reserves .....	96	34.3
		3 = Other ineligible .....	2	0.8
		4 = Self-report ineligible .....	20	7.3
			<u>2,79</u>	
MISRELQS	2	Indicator for Missing All Relevant Questions		
		1 = Yes, no relevant questions answered .....	1,56	1.7
		2 = No, at least one question answered .....	89,43	98.3
			<u>91,00</u>	
MISSCNT	2	Number of Missing Relevant Questions		
		0 = All relevant questions were answered.....	30,97	34.0
		Positive Range = 1 - 35.....	60,02	66.0
			<u>91,00</u>	
NRSPCODE	2	Nonrespondent Status Code		
		0 = Study respondent .....	47,25	53.6
		1 = Refused participation .....	9	0.1
		2 = Returned blank questionnaire .....	13	0.1
		3 = Missing answers to all relevant questions .....	1,29	1.5
		4 = Postal non-delivery .....	4,98	5.6
		5 = Nonrespondent .....	34,45	39.1
			<u>88,21</u>	
RKADJUST	8	Raking Adjustment Range = 0.61 - 2.93 .....	50,05	100
SAMPWT	8	Sampling Weight Range = 1.13 - 1059.30 .....	91,00	100
SV1C1G1	4	Raking Value for Males in Active Duty Army Value = 466,254 .....	91,00	100
SV1C1G2	4	Raking Value for Females in Active Duty Army Value = 69,816 .....	91,00	100

Label	Len	Description	Freqs	Pct
SV1C2G1	4	Raking Value for Males in Army National Guard Value = 21,058 .....	91,00	100
SV1C2G2	4	Raking Value for Females in Army National Guard Value = 2,645 .....	91,00	100
SV1C3G1	4	Raking Value for Males in Army Reserves Value = 9,680 .....	91,00	100
SV1C3G2	4	Raking Value for Females in Army Reserves Value = 2,862 .....	91,00	100
SV2C1G1	4	Raking Value for Males in Active Duty Navy Value = 405,253 .....	91,00	100
SV2C1G2	4	Raking Value for Females in Active Duty Navy Value = 52,374 .....	91,00	100
SV2C3G1	4	Raking Value for Males in Navy Reserves Value = 15,512 .....	91,00	100
SV2C3G2	4	Raking Value for Females in Navy Reserves Value = 2,844 .....	91,00	100
SV3C1G1	4	Raking Value for Males in Active Duty Marine Corps Value = 166,769 .....	91,00	100
SV3C1G2	4	Raking Value for Females in Active Duty Marine Corps Value = 7,752 .....	91,00	100
SV3C3G1	4	Raking Value for Males in Marine Corps Reserves Value = 1,923 .....	91,00	100
SV3C3G2	4	Raking Value for Females in Marine Corps Reserves Value = 350 .....	91,00	100
SV4C1G1	4	Raking Value for Males in Active Duty Air Force Value = 350,873 .....	91,00	100
SV4C1G2	4	Raking Value for Females in Active Duty Air Force Value = 65,022 .....	91,00	100
SV4C2G1	4	Raking Value for Males in Air Force National Guard Value = 7,347 .....	91,00	100

Label	Len	Description	Freqs	Pct
SV4C2G2	4	Raking Value for Females in Air Force National Guard Value = 1,962 .....	91,00	100
SV4C3G1	4	Raking Value for Males in Air Force Reserves Value = 478 .....	91,00	100
SV4C3G2	4	Raking Value for Females in Air Force Reserves Value = 167 .....	91,00	100
SV5C1G1	4	Raking Value for Males in Active Duty Coast Guard Value = 33,317 .....	91,00	100
SV5C1G2	4	Raking Value for Females in Active Duty Coast Guard Value = 3,062 .....	91,00	100
SV5C1G2	4	Raking Value for Females in Active Duty Coast Guard Value = 3,062 .....	91,00	100
WTADJUST	8	Weighting Class Adjustment Range = 1.01 - 5.96 .....	91,00	100

### E.3 Duplicate Analysis File

The Duplicate Analysis File contains 694 records for the multiple questionnaires returned by the study participants. These records appear only on this file and are not given on either the Methods Analysis File or the Survey Analysis File. Analysis variables included in the file are described in this section. The variable information is displayed using the following format

<i>Label:</i>	variable name
<i>Len:</i>	length or size of the variable
<i>Description:</i>	description of the variable
<i>Freqs:</i>	number of records containing a particular value or range of values
<i>Pct:</i>	percent distribution associated with the frequencies

The variable name (*Label*) is the name of the variable on the data set. The size of the variable (*Len*) includes the variable length and the type of variable, such as numeric or alphanumeric. Alphanumeric variables can be identified by an "A" before the variable length. The description of the variable (*Description*) includes information such as the label and values of the variable. Variable values are displayed (*Description*) in one of two ways depending on the type of variable. Frequency distributions are used for categorical variables. Ranges of values are used for continuous variables. The total number of records for each level of the variable (categorical) or within the valid range (continuous) is given in the *Freqs* column while the range is provided in the *Description* column. The percent distribution (*Pct*) is provided for the categorical variables.

Section 4 in this document gives details concerning the use of the following variables during the construction of analysis weights.



Label	Len	Description	Freqs	Pct
FINAL_ID	A7	Unique Subject Identification Number Range = 2000399 - 3088831 .....	69	100
NWCSTRAT	4	Frame Count within Weighting Class Strata Range = 197 - 132,311 .....	69	100
QST1_FLG	2	Indicator for Questionnaire Returned by Study Subject 2 = 2 <sup>ND</sup> questionnaire returned .....	68	98.3
		3 = 3 <sup>RD</sup> questionnaire returned .....	1	1.7
			69	
SAMPWT	8	Sampling Weight Range = 1.13 - 1059.30 .....	69	100
SURVFORM	A1	Study Survey Form A = Survey Form A .....	20	28.8
		B = Survey Form B .....	39	56.3
		C = Survey Form C .....	10	14.8
			69	
WCSTRAT	3	Weighting Class Strata Range = 1 - 180 .....	69	100

## Appendix F Glossary

Words in the glossary have been cross-referenced. If a word used in a definition has its own entry in the glossary the word appears in italics.

**ADMF:** Active Duty Master File

**AGR/TAR:** Members of the National Guard and Reserve currently on active-duty.

**Analysis Weight:** A *sampling weight* that has been modified to compensate for missing data or for other reasons.

**Bias:** The difference between the *expected value* of an estimate of a *parameter* and the value of the *parameter* itself.

**Coefficient of Variation:** The ratio of the *standard error* of a *parameter* estimate to the value of the *parameter*.

**Completion Rate:** Defined as 
$$\frac{\text{eligible respondents} + \text{self-reported ineligible}}{\text{total sample} - \text{record ineligible} - \text{nondeliverables}}$$

**Confidence Interval:** The *random interval* expected to contain a *parameter* value with a specified probability. In the context of repeated sampling, the specified probability is the proportion of intervals computed for all possible samples that contain the *parameter* value.

**Design Effect:** The ratio of the variance of a *parameter* estimate obtained using a specified sampling design to the variance that would be obtained using a simple random sampling design with the same number of observations. Components of the design effect might include a stratification effect, clustering effect, *unequal weighting effect*, and finite population effect.

**Dimensions of Stratification:** Defined by the variables used in constructing strata.

**DMDC:** Defense Manpower Data Center.

**Domain:** Any subpopulation defined within the *inferential population*.

**Eligible Response Rate:** Defined as 
$$\frac{\text{eligible respondents}}{\text{known eligibles}}$$

**Estimation Procedures:** The form of the calculations used to compute sample estimates of population *parameters* and their associated variance-covariance structure. In general, the appropriate estimation procedures are derived from the probability structure used to obtain the observations.

**Expected Value:** The mean of a *random variable* or function of random variables.

**Form A Survey:** The 1995 re-administration of the 1988 survey of Sex Roles in the Armed Forces.

**Form B Survey:** The survey undertaken in 1995 to assess gender issues in the active-duty military force.

**Form C Survey:** The survey undertaken in 1995 to provide a research tool to link the behavior lists used in the *Form A* and *Form B Surveys*.

**Inferential Population:** The totality of units about which inferences are to be drawn or conclusions reached. Often referred to as the target population.

**Item Nonresponse:** Occurs whenever only partial information is secured for a *unit of observation*.

**Key Domain:** A subpopulation defined within the *inferential population* identified for use in determining the *sample size* and allocation.

**Levels of Stratification:** Defined by the values of the variables used to construct the strata.

**Linear Statistic:** A *statistic* computed as the sum and/or difference of *random variables*.

**Missing Data Compensation Procedures:** Modifications made to the *estimation procedure* to reduce or eliminate biases arising in association with *noncoverage* and/or *undercoverage*.

**Noncoverage:** Any failure to assign a positive *selection probability* to every unit in the *inferential population*.

**Nonlinear Statistic:** A *statistic* computed as the product or quotient of *random variables*. In matrix algebra, the concept of a quotient is replaced by the concept of a product formed with the inverse of a matrix.

**Nonresponse:** Occurs whenever one or more of the observation or response variable values required to compute a *parameter* estimate is missing or unknown.

**Parameter:** A constant expressing a defined property of a population or distribution, such as its mean or variance.

**Population Variance:** The average over all of the units in the population of the squared differences between the values of an observation or response variable and its mean.

**Precision Requirements:** The maximum values of the *sampling variances* to be associated with the sample estimates of specified *parameters*.

**Pre-mailing Response Rate:** Defined as  $\frac{\text{eligible respondents} + \text{self - reported ineligible}}{\text{total sample} - \text{record ineligible}}$ .

**Post-stratification:** A partition, in the mathematical sense, of the population constructed using response variable values obtained for a sample. Each unit in the population belongs to but one post-stratum, and the set of all post-strata includes all individuals in the population.

**Post-stratification Adjustment:** A modification made to the *analysis weights* to force the sample estimates of selected parameters to equal specified or known values.

**Random Interval:** An interval having a *random variable* as at least one of its end points

**Random Variable:** A function whose domain is a *sample space* and whose range is a set of real numbers.

**RCCPDS:** Reserve Components Common Personnel Data System.

**Respondents:** Individuals who returned a questionnaire with usable responses to questions about uninvited and unwanted sexual behaviors (questions 11 and 12 on Forms A and C; question 71 on Form B).

**Respondent Burden:** The effort, usually time, required by an individual to fully respond to a survey.

**Response Rate:** Defined as  $\frac{\text{eligible respondents} + \text{known ineligible}}{\text{total sample}}$ .

**SAFS:** Status of the Armed Forces Surveys.

**Sample Size:** The number of *sampling units* selected into the sample. Note that the sample size is not necessarily equivalent to the number of observations. The number of observations obtained in a given sample can be less than, equal to, or greater than the sample size depending on the *sampling design* and *response rate*.

**Sample Space:** A set associated with a real or conceptual experimental or sampling design such that each element of the set denotes an outcome of an implementation of the design and any implementation of the design produces an outcome that corresponds to one and only one element of the set.

**Sampling Design:** The probability structure used to obtain a collection of observations.

**Sampling Error:** The difference between a *parameter* value as determined from a sample and the value as determined by taking a complete count or census using the same methods of measurement.

**Sampling Frame:** A finite set of listing units with the information needed to identify, distinguish, and allow access to the units comprising the *inferential population* and with the auxiliary information needed for implementing the *sampling design*.

**Sampling Units:** The units to which the *selection probabilities* or *selection frequencies* are assigned.

**Sampling Weight:** The inverse of the expected *selection frequency*.

**Sampling Variance:** The average over all possible samples of the squares of the *sampling errors*.

**Selection Frequency:** The *selection probability* multiplied by the *sample size*.

**Selection Probability:** The probability with which a *sampling unit* is selected into the sample.

**Standard Error:** The square root of the *sampling variance*.

**Statistic:** A function of the observations obtained in a sample.

**Stratification:** A partitioning, in the mathematical sense, of the *inferential population* used to control the distribution of the sample. Each unit in the population belongs to but one stratum, and the set of all strata includes all individuals in the population.

**Unbiased:** The difference between the *expected value* of an estimate of a *parameter* and the value of the *parameter* itself is zero.

**Undercoverage:** Any failure to obtain information for all of the *units of observation* in a selected sample.

**Unequal Weighting Effects:** The effect on the *sampling variance* of unequal weighting of the observations. The effect is in the direction of increasing the sampling variances relative to equal weights unless the unequal weights are proportional to the values of the observation variables.

**Unit Nonresponse:** Occurs when no information is secured for a *unit of observation*.

**Unit of Observation:** The units on which observations are made or from which measurements or responses are obtained.

**Variable Survey Cost:** That part of the total cost of a survey that depends on the sample size and allocation. Variable survey costs are contrasted with fixed survey costs, which remain constant regardless of the sample size.

**Weighting Class:** A grouping together of nonrespondents and *respondents* thought to have the same average response variable values.

**Weighting Class Adjustments:** The ratio of the sum of the *sampling weights* over all of the units in a defined *weighting class* divided by the sum of the sampling weights over all *respondents* in the same class.

**Without Replacement:** Once selected, a sampling unit is not at risk of being selected again in the same sample.

